CHRONOLOGY OF WAKEUP CALLS

Compiled by Colin Fries, NASA History Office 11/21/2005

Use of music to awaken astronauts on space missions dates back at least to the Apollo Program, when astronauts returning from the Moon were serenaded by their colleagues in mission control with lyrics from popular songs that seemed appropriate to the occasion. The Apollo 15 crew, whose spacecraft was named "America," (sic) [This was actually the name of the Apollo 17 command module] was awakened one morning with a segment of "The City of New Orleans" beginning with the lyrics, "Good morning America, how are you?" Several crews have awakened on their final day in space to Dean Martin's popular song "Going Back to Houston."

The common element of all these selections is that they promote a sense of camaraderie and esprit de corps among the astronauts and ground support personnel. That, in fact, is the sole reason for having wake-up music; and it is the reason that NASA management has neither attempted to dictate its content nor allowed outside interests to influence the process.

From a letter from Lynn W. Heninger, Acting Assistant Administrator for Congressional Relations to Congressman Robert H. Michel - January 9, 1990

What do astronauts listen to in outer space? *Details* tracks the sounds of the final frontier *Details*, January 2000 By Steve Knopper

Aboard the space shuttle Discovery, astronaut Steve Robinson once used a 50-foot Japanese robotic arm to snare a four-ton satellite. But Robinson's greatest professional challenge came on the ground. Last June, while working at mission control, he was charged with playing wake-up music for another shuttle crew. One astronaut's wife made him promise to play Barry Manilow's schmaltzy ballad "A Little Traveling Music, Please," and Robinson's flight director -- the mission control center's big boss -- insisted he play the rousing U.S. Air Force theme instead. A delicate decision.

"So I played 'em back-to-back. I thought they would cancel each other out," says Robinson tactfully. "The only complaints were from the navy guys on the crew. But I'm not sure if they were complaining about the air force song or Barry Manilow."

Think of the space shuttle as a high-tech road trip with a difference: You can't get out until the trip is over, pot and beer are forbidden, and 125 miles straight down, somebody who isn't even traveling with you gets to pick what's on the tape deck. That's often Chris Hadfield, chief mission control CAPCOM (capsule communicator), who oversees little details like wake-up music, which is broadcast on an intercom-type system with small speakers on the upper and lower decks of the shuttle.

"You play some lively, peppy bit of music -- normally just two minutes of it -- and after a pause, you hear some groggy voice on the microphone mumbling, 'Good morning, Houston,'" Hadfield explains. "You don't want to play a dirge or something uninspiring. You want to get them going in the morning." Consequently, the selections are usually benign -- it's considered poor form, and possibly dangerous, to freak out a sleeping astronaut with Rob Zombie or Eminem. But the DJs at mission control have been known to exhibit a mischievous streak. Once, to the crew's sleepy confusion, Hadfield chose the booming half-U2 version of the Mission: Impossible theme. The 1965 Gemini VI mission was one of the first to include onboard music. Those brave astronauts got "Hello, Dolly!," as sung by clean-cut crooner Jack Jones. For the Apollo II moon mission, flight director Eugene F. Kranz psyched himself up with John Philip Sousa marches. In 1972, the Apollo 17 crew heard the Carpenters' "We've Only Just Begun." The cheese subsided somewhat with the 1975 Apollo-Soyuz Test Project, the first U.S.-Soviet manned space flight: That crew woke to the strains of Jerry Jeff Walker's "Up Against the Wall, Redneck Mother." Since then, more anthemic fare has prevailed: the theme from Rocky (1984), "Bohemian Rhapsody" (1989), and the Star Wars theme (1993). The '93 Columbia shuttle mission had better luck with hip reveilles including the Thompson Twins' "Doctor!" and R.E.M.'s "Shiny Happy People."

(It would be a different playlist if DJs did a set at mission control. Moby told Details he would play the Clash's six-gunning version of "I Fought the Law," and a little Bach or Hendrix. Master mixologist Armand Van Helden would spin Steve Miller's "Fly Like an Eagle" [what, no "Space Cowboy"?] and David Bowie's "Space Oddity." Mr. Space Oddity himself would choose Steve Reich's "Music for 18 Musicians.")

Because in space no one can hear you scream, "Turn that Crap down!," personal CD players and headphones help fly guys maintain their sanity. For his space-shuttle mission last year -- the one with Senator John Glenn, who preselected Louis Armstrong's "What a Wonderful World" as the wake-up call -- astronaut Steve Robinson brought 20 discs. While riding an exercise bike on the lower level, Robinson listened to electric-blues guitarists Albert King and Stevie Ray Vaughan. While staring literally into space, he chose a musician friend's version of Pachelbel's Canon. He fell asleep to Chris Isaak. "It's one of the most personal things that you're able to take up in space. Wherever your music is, that's sort of a version of home," says Robinson. Both Robinson and Hadfield belong to a 12-year-old, all-astronaut, Houston-based rock 'n' roll quartet known as Max-Q, whose rotating members cover bash-it-out standards like "Louie Louie." Named after an aerodynamics term for "maximum dynamic pressure," the band has yet to release any albums but occasionally plays NASA functions. In 1993, they woke up the Discovery crew with a cover of "Heartbreak Hotel."

Such musical experience comes in handy in space -- especially if you believe in cross-cultural exchanges. Four years ago, preparing for a shuttle mission to the Mir space station, Hadfield knew he would encounter Thomas Reiter, a German astronaut and accomplished classical guitarist. He also knew earlier Mir astronauts had left a beat-up acoustic for future crews -- which, he surmised, Reiter wouldn't appreciate. So Hadfield had a company modify an electric guitar, making it lighter than usual and foldable to fit his luggage. United on Mir, 250 miles above the Earth, Hadfield and Reiter sang Beatles songs and Russian folk ballads. Air guitar, says Hadfield, was never quite like this: "It's great floating weightless going around the world, playing guitar."

On the way back from Mir, Hadfield set his CD player for the Celtic weeper "Danny Boy," his favorite song ever, and watched the stars go by. The experience gave "Headphone music" a whole new meaning. "There are certain stanzas of music, certain harmonies, certain lyrics, which sometimes just send a warm rush up your backbone," Hadfield says. "And you get that almost continuously up there." And to think that we here down on Earth thought Barry Manilow couldn't possibly sound any better.

From http://www.knopps.com/DetailsRockSpacemen.html

MERCURY PROGRAM NOTHING FOUND

GEMINI PROGRAM

GEMINI 3, 4, & 5NOTHING FOUND

GEMINI 6 December 15-16, 1965

New lyrics to "Hello Dolly" sung by Jack Jones sent to crew NYT 2/7/68.

GEMINI 7 December 4-18, 1965

New lines to "Time to Get Ready for Love" were sent to the crew

12/6/65 Hawaiian music began to be broadcast to them at 1:34 p.m. *Mission Commentary, Tape 112, page 1* 12/7/65 Mission Control planned to vary the crew's musical diet with upcoming selections scheduled to be: "Beethoven's 6th Symphony", "Les Sylphides" by Chopin, "Hungarian Rhapsody #2" by Lizst, and "Madame Butterfly" by Puccini. - Mission Commentary, Tape 141, page 1

Also that day: "La Boheme" by Puccini, "Symphony No. 3, the Reinich" by Schumann, music by the Fantastics, "Symphony No. 2" by Rachmaninoff, "The Lawrence of Arabia Overture", and "Water Music" by Handel. - Mission Commentary Tape 154, page 2

12/8/65 "High Hopes" - Mission Commentary Tape 170, page 1

Classical music chosen for the crew included: "The Last Two Movements From Symphony Five from The New World" presumably by Dvorak, "Perpetual Motion Opus Number 257" by Johann Strauss, and "Air on the G String" by Johann Sebastian Bach performed by the Philadelphia orchestra. - Mission Commentary Tape 172, page 8

12/9/65 "What'd I Say" by Trini Lopez from "Trini Lopez at P.J.s" sent to crew, a favorite of Jim Lovell's - Mission Commentary, Tape 215, page 2

"I Saw Mommie Kissing Santa Claus" relayed from Tananarive station for Jim Lovell. "A request from his daughter, Barbara, age 12 who hopes the song will bring her daddy home for Christmas, a little early."- Mission Commentary, Tape 223, page 2

12/11/65 "Hey, Look Me Over" – Louis Armstrong, sent to crew. - Mission Commentary Tape 280, page 1 12/18/65 "I'll Be Home For Christmas" and "Going Back to Houston" sent to crew just before retrofire. - Mission Commentary Tape 610, page 1

GEMINI 8 March 16, 1966 NOTHING FOUND

GEMINI 9 June 3-6, 1966

6/4/66 "The Lonely Bull" by Tijuana Brass - From "The Last Man on the Moon". Copyright 1999 by Eugene Cernan and Don Davis. St. Martin's Press, LLC, New York, NY., p.124.

6/6/66 "Russian Overture" and "Ludmilla Overture" by Glinka and a composition by Johann Sebastian Bach were sent to the crew – Mission Commentary Tape 187, page 1

"We have had a change of pace in the music being piped in on one of the inactive (sic) loops here in Mission Control. Run the gamut of the four B's of music, Bach, Beethoven, Brahms and Brass, Tijuana Brass that is." - Mission Commentary Tape 189, page 1

GEMINI 10 July 18-21, 1966 NOTHING FOUND

GEMINI 11 September 12-15, 1966 NOTHING FOUND

GEMINI 12 November 11-15, 1966

11/14/66 "My Favorite Things" from "The Sound of Music" sent to the crew. - Mission Commentary Tape 240, page 2 to Mission Commentary Tape 242, page 1

"Going Back to Houston" sent to crew – Mission Commentary Tape 248, page 1 - Mission

Commentary Tape 249, page 1

71:52:11 –72:06:38 "The Sound of Music" by Julie Andrews from Gemini XII Voice Communications (Air-to-Ground, Ground-to-Air, and Onboard Transcription)

APOLLO PROGRAM

APOLLO 10 May 18-26, 1969

5/21/69 "On a Clear Day" by Robert Goulet

5/22/69 "The Best Is Yet To Come" by Tony Bennett

5/24/69 "It's Nice to Go Trav'ling" by Frank Sinatra

5/25/69 "Come Fly With Me" wakeup from crew to Mission Control

5/25/69 "Zippity-do-da"

5/26/69 Bugle call for reveille.

APOLLO 12 November 14-24, 1969

11/16/69 Bugle & Boatswain's Pipe

02 05 05 09 "First Call to Formation" (trumpet)

07 19 39 33 "The Yankee Clipper, Apollo 12" (chorus)

07 19 40 08 "The Second Time Around" (chorus)

08 15 38 21 to 08 14 40 41 "The Yankee Clipper, Apollo 12" (chorus)

APOLLO 15 July 26-August 7, 1971

8/2/71 "Tijuana Taxi" by Tijuana Brass

8/4/71 - Theme From "2001: A Space Odyssey" Spacecraft communicator Karl Henize

8/6/71 - "Anchors Aweigh" For Jim Irwin.

8/7/71 - Al Kealoha Perry - "Hawaiian War Chant" from record "Hawaii Calls."

APOLLO 17 December 7-19, 1972

Gene and Jack had a total of thirteen wake-up calls during the mission. Ten times Houston picked out appropriate musical selections, albeit none of them "Hail Purdue" in honor of Gene's alma mater, Purdue University. There was no music for their first two wake-up calls in space. For the third morning, Houston picked "The Jayhawk Fight Song" in honor of Ron Evans' alma mater, Kansas University. There was no music again for the fourth morning but, for the fifth call, on the day that Gene and Jack made their landing, Houston played John Denver's version of "The City of New Orleans" which features the phrase "Good morning, America, how are you?" in the chorus. "America" is, of course, the name of the Apollo 17 Command Module. For Gene and Jack's first wake-up call on the Moon, Houston picked Wagner's "The Ride of the Valkyries", a tune regularly played on mornings of final exams at Caltech, which was Jack's undergraduate school. (Gordon Fullerton and Journal Editor Eric Jones were also Caltech undergrads.) Flight Director Gerry Griffin's alma mater, Texas A&M, was honored the next morning with a rendition of "The Aggie Fight Song". Strauss' "Thus Spake Zarathustra" is associated with space because of the Stanley Kubrick/Arthur C. Clarke film "2001: A Space Odyssey".]

[For the rest of the mission, the selections are: Roberta Flack's rendition of "If Ever I Saw Your Face", presumably a reference to the Moon below the orbiting spacecraft; the Doors' "Come on Baby Light My Fire", to be played on the day (December 17) that the Apollo 17 crew leaves lunar orbit for the trip home; "Home for the Holidays"; The Carpenters' "We've Only Just Begun", played in the belief that the end of Apollo is not the end of humanity's lunar adventure; and, for the morning of splashdown, a dual selection of the Navy's "Anchors Away" and the U.S. national anthem, "The Star Spangled Banner."]

[Journal Contributor Brian Lawrence notes that "the BBC used 'Also Sprach Zarathustra' to introduce their TV coverage of all the missions."]

Apollo Lunar Surface Journal (after 183:33:55)

02 08 35 43 - 02 09 39 39 (TEC) (12/9/72) "Jayhawk Fight Song" in honor of Ron Evans' alma mater.

04 07 05 01 - 04 07 11 04 (TEC) (12/11/72) "City of New Orleans" - John Denver ("Good Morning, America" line in song refers to Command Module, America. The wake-up call for landing day was John Denver's version of the Steve Goodman song, "The City of New Orleans," with its chorus of "Good morning, America, how are ya?" It was a happy song that had been suggested by people on the

night shift in the press room - a song that matched the mood of the crew and, indeed, country-music-fan Schmitt requested a replay while he and the others finished waking up.

From "Apollo Lunar Surface Journal"

05 14 15 05 (TEC) (12/12/72) "Ride of the Valkyries" by Wagner wake-up to Schmitt on Moon.

"Jack Schmitt and Gordon Fullerton were both undergraduates at the California Institute of Technology. At 7:00a.m. it was traditional for students with hi-fi systems to tie them together and wake up everybody in the undergraduate dorms by playing 'The Ride' at full volume..." Bob Parker may have had the duty of choosing this piece. "In a February 1992 telephone conversation, Bob said that, if it was he who picked the piece, it was simply because he likes Wagner and can think of few things more stirring than the Ride. He also says that, in the Apollo era, the wake-up music was usually picked the night before and that they sometimes had trouble finding a recording in time."

From "Apollo Lunar Surface Journal"

06 13 45 04 (TEC) (12/13/72) "*Texas Aggie Fight Song*" to lunar crew. Honors Flight Director's Gerry Griffin's alma mater, Texas A & M.

07 12 49 59 (TEC) (12/14/72) "Thus Spake Zarathrustra" (Theme from "2001") by Richard Strauss to lunar crew

08 12 57 10 (TEC) (12/15/72) "The First Time Ever I Saw Your Face" by Roberta Flack to lunar crew. Presumably refers to face of the Moon below. Chosen by Neil Hutchinson.

09 09 30 51 - 09 09 38 54 (TEC) (Dec. 16, 1972) "Light My Fire" The Doors. Same day that crew ignites SPS and leaves lunar orbit.

10 07 50 01 (TEC) (12/17/72) "Home For the Holidays" by Jerry Vale.

11 08 20 01 (TEC) (12/18/72) "We've Only Just Begun" The Carpenters. "...played in the belief that the end of Apollo is not end of humanity's lunar adventure." From ALSJ. Followed by Christmas carol recorded by Ron Evans' neighbors. From MC.

12 07 20 02 (TEC) (12/19/72) "Anchors Aweigh" and "The Star Spangled Banner" 12 07 33 47 (TEC) (12/19/72) "Anchors Aweigh" again

SKYLAB

SKYLAB 2

6/21/73 Boatswain's Call and "Lonely Bull" by Herb Alpert & Tijuana Brass. The boatswain's pipe was directed to Pete Conrad by Paul Hand, probably because Conrad was Navy.

"You should have started doing that on about day 2," Conrad quipped.

"And the crew down here couldn't find a song for three bulls, it was only one," replied Capcom. Conrad countered with, "Here's a little old song, love."

And then PAO filled in the background:

"That last song coming down from Skylab was out of Pete Conrad's repertoire of country-western music he has aboard."

From Mission Commentary

SL-II MC-1305/2

Time: 05:31 CDT, 28:10:31 GMT

SKYLAB 3

- 8/21/73 "Girl from Ipanema" and "Anchors Aweigh"
 - CAPCOM: Bob Crippen
- 8/22/73 "The Party's Over" by Julie London

CAPCOM: Bob Crippen

8/23/73 Army Air Corps Song

CAPCOM: Bob Crippen

- 8/24/73 "Come Fly With Me"
- 8/25/73 Selections from Julie London and Tijuana Brass CAPCOM: Bob Crippen
- 8/27/73 "My Skylab Home" written and performed by Chuck Morley of Cocoa Beach, Florida courtesy of Bill Cummings of Titusville radio station WRMF

CAPCOM: Karl Henize

9/15/73 "Paralyzed" by Legendary Stardust Cowboy. Sounded like Marine Close Order Drill to Owen Garriott

CAPCOM: Bob Crippen

- 9/17/73 Message from Mother Earth (the alter ego of Bob Crippen) followed by the instrumental, "Come Saturday Morning"
- 9/18/73 "String of Pearls" by Glenn Miller Orchestra
- 9/19/73 "Marine Corps Hymn" played for Jack Lousma. Jack said Mission Control should be standing at attention.
- 9/20/73 UNIDENTIFIED

CAPCOM: Bob Crippen

9/25/73 "Going Back to Houston" (Sic), probably "Houston" by Dean Martin CAPCOM: Henry Hartsfield

SKYLAB 4

11/21/73 "The Lonely Bull" by [Herb Alpert & Tijuana Brass]? CAPCOM: Henry Hartsfield

11/22/73 "A Walk in the Black Forest" Symbolic of the fact that the crew of Skylab 4 will be taking a walk in the blackness of space to repair the control system for an Earth-scanning antenna.

CAPCOM: Henry Hartsfield

11/24/73 "Paralyzed" by Legendary Stardust Cowboy CAPCOM: Bob Crippen

12/2/73 "*Misty*" by Julie London CAPCOM: Bob Crippen

12/3/73 Selection from "*The Sea*" by Rod McKuen CAPCOM: Bob Crippen

12/4/73 "Muskrat Ramble" by Firehouse Five Plus Two CAPCOM: Bob Crippen

12/5/73 UNIDENTIFIED

12/6/73 A message from the people of Germany followed by German Christmas songs. Santa Claus Day in Germany falls on this date.

Also

"Silent Night" by Barbra Streisand

12/7/73 "The Party's Over" by Julie London

12/10/73 "Lonely Bull (El Solo Toro)" by Herb Alpert & Tijuana Brass

12/11/73 "Peanut Vendor" by Chet Atkins CAPCOM: Henry Hartsfield

12/13/73 "Eli's Coming" by Three Dog Night

12/14/73 "Blue Tail Fly" by Burl Ives CAPCOM: Richard Truly

12/23/73 Christmas music "The Little Drummer Boy"

12/24/73 "The Twelve Days of Christmas", "The Little Drummer Boy"

12/25/73 "Ring Christmas Bells"

12/28/73 UNIDENTIFIED CAPCOM: Bob Crippen

12/29/73 "Joy to the World" by Three Dog Night

CAPCOM: Bob Crippen

12/30/73 "On Top of the World" by "The Carpenters"

CAPCOM: Bob Crippen

12/31/73	"Come Back My Love" by Brigitte Bardot
1/1/74	"Auld Lang Syne" Guy Lombardo "Paralyzed" by Legendary Stardust Cowboy
1/2/74	UNIDENTIFIED CAPCOM: Bruce McCandless
1/3/74	Peter, Paul, and Mary medley CAPCOM: Henry Hartsfield
1/4/74	Chet Atkins medley
1/5/74	"Strawberry Roan" and "El Paso" by Marty Robbins Commander Gerald P. Carr commented: "Gene Autry, eat your heart out." CAPCOM: Henry Hartsfield
1/6/74	Herb Alpert & Tijuana Brass medley CAPCOM: Henry Hartsfield
1/12/74	"Come Saturday Morning" CAPCOM: Bruce McCandless
1/13/74	"Light My Fire" by The Lettermen (sic) CAPCOM: Bruce McCandless
1/14/74	Neil Diamond vocal CAPCOM: Bruce McCandless
1/15/74	"The First Time Ever I Saw Your Face" CAPCOM: Bruce McCandless
1/16/74	"Spiders and Snakes" CAPCOM: Bruce McCandless
1/17/74	"O What a Beautiful Morning" CAPCOM: Bob Crippen
1/19/74 Splitting I	The Air Force Song ("Off We Go Into the Wild Blue Yonder"), "Anchors Aweigh" & "Ear Louder Boomer" by Steppenwolf. The last for lone civilian of crew, pilot Ed Gibson CAPCOM: Bob Crippen
1/20/74	"Marines Hymn", "Quiet Village", "Hawaiian War Chant" CAPCOM: Bob Crippen
1/21/74	"The Party's Over" by Julie London "Misty" by Julie London CAPCOM: William Thornton
1/22/74	"Spiders and Snakes" CAPCOM: Richard Truly
1/23/74	"Happy Birthday" "For He's a Jolly Good Fellow" by Pogue family

	CAPCOM: Richard Truly
1/24/74	"Misty" CAPCOM: Richard Truly
1/25/74	"On Top of the World" by The Carpenters CAPCOM: Richard Truly
1/26/74	"In the Wee Small Hours of the Morning" by Julie London CAPCOM: Richard Truly
1/27/74	"El Manicero" Herb Alpert & Tijuana Brass?
1/28/74	"A medley of soft music" CAPCOM: Henry Hartsfield
1/29/74	"If" by Bread; "Gypsies, Tramps, and Thieves" by Cher; and "Sensuous Woman" by Mystic Moods CAPCOM: Henry Hartsfield
1/30/74	"Ghost Riders in the Sky" CAPCOM: Henry Hartsfield
1/31/74	"Burning Love" by Elvis Presley CAPCOM: Henry Hartsfield
2/3/74	"Walk Through the Black Forest" by Herb Alpert & Tijuana Brass
2/4/74	"Rachmaninoff Concerto No. 3" played by Van Cliburn
2/5/74	"Out in the Country" by Three Dog Night" and "I Feel the Earth Move" by Carole King. CAPCOM: Henry Hartsfield
2/6/74	"Soul of Spain" by 101 Strings
2/7/74	"Carmen" by Bizet and "Shaft" by Isaac Hayes CAPCOM: Bruce McCandless
2/8/74	"Goin'Back to Houston" by Dean Martin
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APOLLO-SOYUZ TEST PROJECT (ASTP)

July 15-24, 1975

- 7/16/75 "Good Morning Sunshine" Chicago (Apollo crew) 7/18/75 "Midnight in Moscow" (Apollo crew)

In honor of Bill Pogue

- 7/19/75 "Tenderness" Maya Kristalinskaya. Crew did not wake until later in morning (Apollo crew) 7/20/75 "Tenderness" Maya Kristalinskaya. This time the crew heard it. (Apollo crew) 7/24/75 "Redneck Mother" Jerry Jeff Walker (Apollo crew)

SPACE SHUTTLE

... the wakeup music is selected by the astronauts working as CAPsule COM municators (CAPCOM) for the mission. Traditionally, the music relates to mission objectives or to specific crew members. The speaker units onboard the Shuttle were designed to annunciate alarm tones, so they do not reproduce music very well. Therefore, songs chosen for wakeup must be very recognizable to the crew. Special greetings, or songs which provide commercial gain or profit cannot be used. Selected from recordings widely available to the public, the wakeup song list is reviewed and approved preflight. Within the highly structured environment of a Shuttle flight the morning wakeup presents an opportunity for levity and a bit of shared camaraderie. It tends to stand out as a human element in an otherwise complex technical enterprise.

Kay Hire, spacecraft communicator on STS-79 in answer to a Mission Control Web question

On shuttle, at the appropriate time, mission controllers in Houston send wake-up music to the crew. Mission control picks the songs, with suggestions from astronauts' loved ones. Sometimes a family member will request a favorite song for a loved one. The station crew wakes up the "old-fashioned" way: the buzz of an alarm clock.

"How do astronauts sleep in space?" - FLORIDA TODAY By Chris Kridler 12/17/02

"Some missions have two shifts, so there is someone awake 24 hours a day," he [NASA spokeman Kelly Humphries] said. "On those missions, we don't do wake-up calls. On missions when the crew is on the same shift, we send up one when they're supposed to get out of bed." The wake-up calls are orchestrated before the mission, Humphries said. "A [crew-member's] family will say, 'I'd like to send this song up to my dad, because he's on orbit and he likes this song.' "Some songs fostered team spirit, Humphries said.

"Astronauts Get Baha Men, AC/DC Wake-Up Calls" - MTV News 2/20/2001

(Please note: On-line audio links to Space Shuttle wakeup calls exists for missions STS-81 to present with the exceptions of STS-82, STS-83, STS-84, STS-94, STS-86, and STS-89. See hyperlinks provided below the text list for each applicable mission. However, there are no links for mission STS-80 and earlier missions)

STS-1 April 12-14, 1981

4/13/81 "Blast-Off Columbia" Roy McCall

4/14/81 Comic tape with voices of Houston DJs Hudson and Harrigan kidding Young and Crippen

followed by "Reveille".

STS-2 November 12-14, 1981

11/13/81 "Pigs in Space" comedy routine #1 by The Muppets.

11/14/81 "Pigs in Space" comedy routine #2 by The Muppets, preceded by rendition of "Columbia, Gem

of the Ocean" by the Flight Operations Directorate group "Contraband."

STS-3	March 22-3	0. 1982
	3/23/82	"On the Road Again" by Willie Nelson
	3/24/82	"Marine Corps Hymn"
	3/25/82	The Air Force Song ("Off We Go Into the Wild Blue Yonder") for the benefit of pilot C.
		Gordon Fullerton, an Air Force colonel, who commented: "That will get us off to a fast start."
	3/26/82	"Sail Away" by Christopher Cross while over Madrid.
	3/27/82	Exchange of music between the ground and the <i>Columbia</i> , the <i>Columbia</i> playing for the flight
		control team, "I'm Sitting On Top of the World" and the flight team transmitting up "Those
		Magnificent Men and Their Flying Machines."
	3/28/82	"Six Days on the Road and I'm Gonna Make It Home Tonight" by Dave Dudley
		NASA stretched the lyrics to make it eight days instead of six"OK, that's good music,
		Houston," Lousma told capsule communicator Brewster Shaw, who had a radio station make
		a change in the tape.
	3/29/82	CAPCOM Steve Nagil uplinked "This is My Country" to the crew and the crew responded
		with downlink medley of the "The Air Force Song ("Off We Go Into the Wild Blue
		Yonder")" and the "Marine Corps Hymn."
COTO A	1 27 1 1	4 1000
STS-4	June 27-July	
	6/28/82	"Up, Up and Away" "Held That Tigor" has Auburn Haisanaita Dan d
	6/29/82 6/30/82	"Hold That Tiger" by Auburn University Band
	0/30/82	Hank Hartfield's wedding anniversary and on this first air/ground pass of the day, he received
	7/2/82	taped messages from his two daughters and his wife. Theme from "Chariots of Fire"
	7/3/82	College fraternity songs, the Delta Tau Delta Fraternity for TK Mattingly, and Delta Chi for
	113162	Hank Hartsfield.
	7/4/82	"This is My Country"
STS-5	November 1	
	11/12/82	"76 Trombones" from the "Music Man"
	11/13/82	"Cottoneye Joe"
	11/14/82	Marine's Hymn "Halls of Montezuma" in honor of two Marines onboard: Columbia pilot Bob
		Overmyer, active duty Marine Corps colonel, and Vance Brand who began his career as a
	11/15/00	Marine aviator
	11/15/82	"The Stroll"
	11/16/82	"Take Me Home, Country Roads" by John Denver
STS-6	April 4-9, 19	983
	4/5/83	"Cadets on Parade" and The Air Force Song ("Off We Go Into the Wild Blue Yonder") by
		the United States Air Force Academy Band
	4/6/83	"Teach Me Tiger" by April Stevens
	4/7/83	"Theme from F-Troop"
		The significance of that being referring to this crew as the F-crew for the purposes of training
		documents the crews have been listed alphabetically. A-crew was the STS-I crew –John Young, Bob
		Crippen. B-crew was the STS-2 crew - Dick Truly and Joe Engle. Of course, now up to STS-6. This is the F-crew and in a jocular vein they refer to themselves not as the F-crew but the F-Troop and accordingly
		the significance of this mornings wake up call.
		From STS-6 AIR/GROUND TRANSCRIPT
	4/8/83	"The Poor Co-pilot," a tune from Korean War flying days sung by Oscar Brand and the Roger
		Wilco 4
	4/9/83	"Ode to the Lions" as rendered by Rusty Gordon. This is a Penn State song referring to the Nittany
		Lions, of Penn State University which is Paul Weitz alma mater. He earned his Bachelor in Aeronautical
		Engineering at Penn State in 1954.
		From STS-6 AIR/GROUND TRANSCRIPT

STS-7	June 18-24	, 1983
	6/19/83	The University of Texas Fight Song, of course, a tribute to the Mission Commander, Bob Crippen who is a UT graduate. It was preceded by the Texas A&M, Texas "Aggie", Fight Song which was a greeting card to Crip from Jerry Griffin, the Center Director at JSC, who is a Texas A&M graduate. From STS-7 AIR/GROUND TRANSCRIPT
	6/20/83	"A&M, Texas A&M Aggie War Hymn" followed by "Tufts Tonia's Day" as rendered by the Tufts University Beelzebubs, which is a student acappella group at Tufts University, Rick Hauck's alma mater.
	6/21/83	"Texas Aggie War Hymn" followed by "Reveille" followed by "When You're Smiling", as rendered by Mary Cleave's father, Mary Cleave, the CAPCOM for this crew, and in response Challenger down linked some music of its own, some version of "Tequila Sunrise."
	6/22/83	"Texas A&M Aggie War Hymn" and the "Washington State University Cougar Fight Song", from which John Fabian is a graduate.
	6/23/83	The uplink music was the "Texas A&M, Texas Aggie War Hymn," followed by the incomparable Leeland Stanford Junior University Marching Band, playing the "Stanford Hymn," which of course is the alma mater of Dr. Sally Ride and it sounded like the crew down linked a Beatles' song, "A Hard Day's Night". From STS-7 AIR/GROUND TRANSCRIPT
	6/24/83	The usual few opening bars of the "Texas Aggie War Hymn;" that was followed by the "Florida State University Fight Song" played by the Florida State University Marching Chiefs. Norm Thagard is an alumnus of FSU. From STS-7 AIR/GROUND TRANSCRIPT
CTC 0	A	Contourbon 5, 1002

STS-8

August 30-September 5, 1983

Mission events reversed with night launch and night-day activities.

8/31/83 "Georgia Tech Fight Song" for the alma mater of Commander Richard Truly.

0/31/03	Georgia Tech Fight Song Tor the anna mater of Commander Kichard Trury.
9/1/83	"Illinois Fight Song" for Mission Specialist Dale Gardner's alma mater.
9/2/83	"Penn State Fight Song" for Guy Bluford's Alma Mater
9/3/83	"University of North Carolina Fight Song" for alumnus Bill Thornton.
9/4/83	"Tala Sawari" performed by sitar player Ravi Shankar in honor of release of Indian INSAT satellite.
9/5/83	"Semper Fidelis" by John Philip Sousa. CAPCOM Brian O'Connor was a Marine Corps officer.

STS-9 November 28-December 8, 1983

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-41-B	February 3-11, 1984
2/4/84	Wake-up music had been planned to be a selection from the "Contraband," that group of NASA
	employees and would have featured Ron McNair, astronaut Ron McNair on the tenor sax, but that
	somehow got garbled in the translation going up.
2/5/04	From STS-41-B AIR/GROUND TRANSCRIPT
2/5/84	"A Train" by "Contraband" which features as its tenor sax player, Dr. Ron McNair
2/6/84	"Glory, Glory, Colorado" by the University of Colorado Band. That's the fight song of that
	institution which is Vance Brand's alma mater followed by "Ride High You Mustangs" the Cal Poly State University fight song which is Pilot Robert Gibson's alma mater.
2/7/84	Wake up music was an armed forces medley which covered three of the services.
2/1/04	The Marine Corp., of course is Vance Brand's alma mater. He's now a civilian but was originally
	trained as a Marine Corps pilot. The Navy hymn in honor of Mission Specialist, Bruce McCandless and
	Challenger Pilot, Hoot Gibson, both Naval Officers. And the Army song honoring the nation's first
	United States Army Astronaut, Bob Stewart. And the music was performed by guess who, the U.S. Air
	Force Academy Chorale. From STS-41-B AIR/GROUND TRANSCRIPT
2/8/84	North Carolina A&T University alma mater of which Mission Specialist Ron McNair is an alumnus and
2/0/04	"Southern to the Top", the fight song from the University of Southern Mississippi, the alma mater of
	Mission Specialist Bob Stewart.
	From STS-41-B AIR/GROUND TRANSCRIPT
2/9/84	"Theme from 'The Greatest American Hero'" in honor of that day's EVA. With some changed
2/10/0	verses
2/10/84	A live rendition of The Air Force Song ("Off We Go Into the Wild Blue Yonder") from all
2/11/84	the Air Force CAPCOMs. "In the Mood" by "Contraband", a musical group composed of JSC employees.
2/11/04	in the Mood by Contrabalid, a musical group composed of 35C employees.
STS-41-C	April 6-13, 1984
4/7/84	"A Boy Named Sue" by Johnny Cash.
4/8/84	Fight song of the University of California at Berkeley" followed by the
	T 1 1 1 TT 1 1 TT 1 1 0 TT 1 1 1 1 1 1 1
	Lehigh University Fight Song. The first in honor of Ox van Hoften, the
4/0/94	second in honor of T. J. Hart.
4/9/84	second in honor of T. J. Hart. Unidentified
4/9/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response
4/9/84 4/10/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT
	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response
4/10/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified
4/10/84 4/11/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy
4/10/84 4/11/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso.
4/10/84 4/11/84 4/12/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso. From STS-41-C AIR/GROUND TRANSCRIPT
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4/10/84 4/11/84 4/12/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso. From STS-41-C AIR/GROUND TRANSCRIPT Fight songs from the University of Texas, for mission commander, Bob Crippen, and the
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4/10/84 4/11/84 4/12/84 4/13/84 STS-41-D 8/31/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso. From STS-41-C AIR/GROUND TRANSCRIPT Fight songs from the University of Texas, for mission commander, Bob Crippen, and the University of Arizona for Pilot, Dick Scobee. August 30-September 5, 1984 "Anchors Aweigh"
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4/10/84 4/11/84 4/12/84 4/13/84 STS-41-D 8/31/84 STS-41-G 10/6/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso. From STS-41-C AIR/GROUND TRANSCRIPT Fight songs from the University of Texas, for mission commander, Bob Crippen, and the University of Arizona for Pilot, Dick Scobee. August 30-September 5, 1984 "Anchors Aweigh" October 5-13, 1984 "Flashdance - What A Feeling" Irene Cara
4/10/84 4/11/84 4/12/84 4/13/84 STS-41-D 8/31/84	second in honor of T. J. Hart. Unidentified SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call) From STS-41-C AIR/GROUND TRANSCRIPT Theme from "Rocky" No wakeup music sent Unidentified Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso. From STS-41-C AIR/GROUND TRANSCRIPT Fight songs from the University of Texas, for mission commander, Bob Crippen, and the University of Arizona for Pilot, Dick Scobee. August 30-September 5, 1984 "Anchors Aweigh" October 5-13, 1984 "Flashdance - What A Feeling" Irene Cara Theme from the film "Rocky"

STS-51-A November 8-16, 1984

"Marine Corps Hymn" for the 209th birthday of the U.S. Marine Corps

CAPCOM: Dave Hilmers

11/14/84 Theme from the movie, "For a Few Dollars More"

Bob Springer told the crew, "It's a tribute to the day's activities." Springer referred to the fact that originally one group of insurance companies had agreed to pay NASA \$4.8 million to retrieve only the Palapa payload. But two months ago, another group of underwriters signed up for the Westar salvage and NASA said it would do both jobs for a total of \$5.5

million.

Chicago Tribune 11/15/84 CAPCOM: Bob Springer

11/15/84 Composite tape of one line from several songs put together by Kevin

Mathews, LAV FM97 in Grand Rapids, Michigan.

STS-51-C January 24-27, 1985

DoD Classified Mission with news blackout - NOTHING FOUND

STS-51-D April 12-19, 1985

4/16/84 "Top of the World" by The Carpenters

4/17/84 "Rescue Aid Society" from the Disney film, "The Rescuers".

STS-51-B April 29-May 6, 1985

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-51-G June 17-24, 1985

6/18/85 "I Feel the Earth Move" by Carole King

CAPCOM: Bob Springer

6/21/85 "Proud Mary" by Creedence Clearwater Revival

CAPCOM: David Leetsma

6/22/85 "Sailing" by Christopher Cross

CAPCOM: David Leetsma

6/23/85 **First Wakeup**: Untitled Saudi Arabian music; Theme from movie,

"Jonathan Livingston Seagull" by Neil Diamond.

CAPCOM: David Leetsma

Second Wakeup: "Happy Talk" from movie "South Pacific".

CAPCOM: Bob Springer

6/24/85 1. "William Tell Overture" by Rossini

2. "Wedding March" by Felix Mendelssohn

3. "Get Me to the Church on Time" from "My Fair Lady" by Lerner and

Loewe

In honor of pilot John Creighton's upcoming marriage

CAPCOM: David Leetsma

STS-51-F July 29-August 6, 1985

NOTHING FOUND

STS-51-I	August 27-September 3, 1985
8/28/85	"Waltzing Matilda" awakened the crew as they passed over Australia.
	CAPCOM: David Leetsma
8/29/85	"Over the Rainbow" – Judy Garland
	CAPCOM: David Leetsma
8/30/85	"I Saw the Light" by Willie Nelson
	CAPCOM: David Leetsma
8/31/85	"I Get Around" by Beach Boys
	CAPCOM: James D. Wetherbee
9/1//85	"Lucky Old Sun" by Willie Nelson
9/2/85	"Stormy Weather" by Willie Nelson. It was chosen due to the powerful Gulf Coast hurricane
	Elena observed from the Discovery.
	CAPCOMS: James D. Wetherbee/Joe Engle
9/3/85	"Living in the USA" by Linda Ronstadt
	CAPCOMS: James D. Wetherbee/Joe Engle

STS-51-J October 3-7, 1985

DoD Classified Mission with news blackout - NOTHING FOUND

STS-61A October 30-November 6, 1985

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-61-B	November 26-December 3, 1985
11/26/85	The Air Force Hymn for first Air Force space shuttle commander, Brewster H. Shaw, Jr.
11/29/85	"America the Beautiful"
11/30/85	"Marine Corps Hymn" for pilot Bryan O'Connor
12/2/85	"Notre Dame Fight Song" or "Notre Dame Victory March", a joke played on Jerry Ross, a graduate of Purdue, one of Notre Dame's rivals by Jim Wetherbee. CAPCOM: James Wetherbee
12/3/85	"Born in the U.S.A." Bruce Springsteen

STS-61-C January 12-18, 1986

1/12/86 Opening theme from "Monty Python's Flying Circus" TV show ("Liberty Bell March" by John Philip Sousa).

CAPCOM: Shannon Lucid

1/14/86 "Heart of Gold" by Neil Young

1/18/86 "Stars and Stripes Forever"

STS-51-L January 28, 1986 DID NOT ACHIEVE ORBIT

STS-26

September 29-October 3, 1988

9/30/88

Robin Williams opened with "Gooooooood Morning Discovery!!!" in "Good Morning Vietnam" style. The original recording produced by Houston area DJ from KKBQ, Mike Cahill, also included original lyrics recorded to the theme music of the TV show "Green Acres". Robin Williams was approached by Cahill about doing the tape. NASA knew nothing of the tape until it was offered as a gift by Cahill.

Mike Cahill, writer, producer for KKBQ Radio, Houston and a part-time on-call tour guide at JSC, said he had listened to some wake-up calls a year and a half ago and some of them were, "You know, kind of awful. So what I did was thought gee it would be nice to write, produce and custom design songs for the astronauts. I picked three tunes that were pretty catchy, that were very short and upbeat. Green Acres was the first one. I thought gosh that would be the last thing they'll expect to hear." Pat Mattingly, who works in Mission Control, found out Cahill was doing them and said they were looking for new stuff. She gave a tape to CAPCOM Kathy Sullivan.

Mike wrote the lyrics in early 1987. Threw in Discovery because knew it would be next Orbiter to fly. He collaborated with Mark Richardson, the leader of a band named "Eclipse." Mike and Mark worked on putting the music together. Richardson played keyboard, guitars, drum machine. Mike called on Patrick Brennan who used to be with now-defunct group "Popkorn" that played in clubs around Clear Lake to do the vocals. Mike and Mark helped out on the chorus for Green Acres.

Green Acres was Mike's favorite. "It was as dopey and stupid and corny as I had hoped it would be." He said he wanted to show that NASA people have a sense of humor.

"It's the closest I'll ever get to going to space." From JSC Query Book

10/1/88 Parody of Beach Boys "I Get Around" with lyrics "We orbit 'round" was provided by radio

disc jockey Mike Cahill.

10/2/88 Harvey Mudd College (Claremont, CA)"Fight Song", sung to tune of "Mickey Mouse Club" by eight HMC students with intro by Robin Williams. Harvey Mudd is the alma mater of

mission specialist Pinky Nelson. He commented afterwards: "There isn't a dry eye in the

house."

10/3/88 "Fun, Fun..." Beach Boys parody with original lyrics.

STS-27 December 2-6, 1988

12/3/88 Army "Fight Song" and Navy "Fight Song" because "Hoot" Gibson and Bill

Shepherd were Navy grads and Mike Mullane graduated from West Point.

12/4/88 Theme from TV show "Rawhide" with satirical lyrics based on an inside

joke between the Atlantis crew and CAPCOM members of the astronaut

class of 1984.

12/5/88 Using "Star Wars" theme music as background, Darth Vader's voice awoke

the crew with a message followed by satirical lyrics sung to The Beatles tune, "Do You Want to Know a Secret?" The recording was produced by Houston radio station KKBQ's Mike Cahill, Pat Brennan, and Mark

Richardson.

STS-29 March 13-18, 1989

Discovery's astronauts generally toed the line on a new NASA edict to cut the comedy, at least for public viewing, but they showed some flashes of fun in space, mainly in the battle of wakeup songs. When Discovery made the first post-Challenger flight last September, the five astronauts awoke to Beach Boys music parodies and clowned for television cameras in bright Hawaiian shirts. And even though the December flight of Atlantis was a classified military mission, word leaked of special wakeup music not particularly flattering to the Pentagon. And both crews videotaped themselves playing in the weightlessness of orbit, turning somersaults, throwing a football and feeding each other candy. The tapes were shown at public gatherings. The astronauts' wacky wakeup calls and zany acrobatics got attention, which upset NASA because it felt the reports made the flights look like all play and no work.

"We've learned that if you crack a joke or show somebody doing something funny, that's the 10 seconds that gets on the evening news, and not the two hours of work you just showed," Discovery commander Michael Coats said in a pre-launch interview.

So space agency officials told Discovery's crew to cool it when the cameras or microphones were on.

"NASA has no official sense of humor anymore," said Bob Springer, one of Coats' crewmates. "So we're somewhat restricted now on what we can do."

Discovery's flight started out strictly following the policy, with wakeup calls played by Mission Control limited to presentations like the Marine Hymn, for the two crewmen who are Marines. But on Day 3, things loosened up.

From AP-NY-03-19-89

3/14/89	"I Got You (I Feel Good)" James Brown
	CAPCOM: David Low
3/15/89	"Marine Corps Hymn" - tribute to mission specialists Bob Springer and Jim Buchli
	CAPCOM: Ken Cameron
3/16/89	Discovery crew woke Mission Control with theme from "Star Trek" followed by
	congratulatory comments from William Shatner. Mission Control responded with a medley
	of school songs from crew members' alma maters: "Anchors Aweigh", The Air Force Song
	("Off We Go Into the Wild Blue Yonder"), and Drexel University "Fight Song"
	CAPCOM: G. David Low. He responded with ad lib: "Discovery, Houston – Beam Me Up,
	Scotty."
3/17/89	Discovery crew woke up Mission Control with "Heigh-Ho, Heigh-Ho, It's Off To Work We

Discovery crew woke up Mission Control with "Heigh-Ho, Heigh-Ho, It's Off To Work We Go" from movie "Snow White." Mission Control replied with "Stars and Stripes Forever". CAPCOM: G. David Low

3/18/89 Mission Control sent recordings of astronauts' children shouting such things as

"Get up, Dad, get out of bed and get to work" and "Hi, daddy, this is your darling daughter telling you to wake up." This was followed by "What a Wonderful World" by Louis Armstrong. The crew responded with "Homeward Bound" by Simon and Garfunkel.

STS-30	May 4-8, 1989
5/5/89	Theme music from the film, "Superman"
5/6/89	Crew members awakened with medley from their respective alma maters: "Anchors Aweigh", played for STS-30 commander Dave Walker – Navy "The Wild Blue Yonder" for pilot Ron Grabe and Mark Lee - Air Force Colorado State University fight song for Mission Specialist Mary Cleave; and Florida State University fight song for Mission Specialist Norm Thagard
5/7/89	Theme music from the film, "Rocky"
5/8/89	"A Hard Day's Night" The Beatles

STS-28 August 8-13, 1989 DoD Mission - NOTHING FOUND

STS-34	October 18-2	23, 1989
	10/19/89	Medley: 1. "Hail Purdue", 2. "Reveille", 3. "Anchors Aweigh" as tribute to commander Don Williams and pilot Mike McCulley who were both Purdue and Naval Academy graduates. CAPCOM: Tammy Jernigan
	10/20/89	University fight songs medley sent as a tribute to the Mission Specialists and their undergraduate schools: 1. University of Oklahoma for Shannon Lucid, 2. University of Connecticut for Franklin Chang-Diaz, 3. State University of New York at Buffalo for Ellen Baker.
	10/21/89	CAPCOM: Tammy Jernigan "Bohemian Rhapsody" by Queen. Words "Galileo, Galileo" referring to primary payload "Galileo" were substituted for original words "Mama Mia, Mama Mia" by voice of Don McMonagle. CAPCOM: Tammy Jernigan
	10/22/89	"Centerfield" John Fogerty for sports fans onboard. CAPCOM: Tammy Jernigan
	10/23/89	"Fly Like An Eagle" Steve Miller Band CAPCOM: Ken Cameron

November 22-27, 1989 DoD Mission - NOTHING FOUND **STS-33**

STS-32	January 9-2	0, 1990
	1/9/90	"What's More American?" - Words and music by Kadish Millet. Sung by Bing Crosby
	1/10/90	Parody kidding G. David Low based on tune of "The Banana Boat Song" originally sung by Harry Belafonte.
	1/11/90	Parody set to the tune of "Let It Snow" - with a message to the crew in the lyrics of "Bring her home" meaning the Long Duration Exposure Facility (LDEF).
		Written and recorded by "The Prox Ops Boys", Dave Thompson, Mark Schrock, Brian Bertrand, Steve Walker, Ted Rickerl, and Greg Schrage.
		From the Mission Operations Directorate's Orbit Dynamics (aka Prox Ops) Office
	1/12/90	Parody "Hello LDEF", sung to the tune of "Hello Dolly" intended as a tribute to the cargo which was retrieved on 1/12/90. Written and sung by James C. Martin and his friend Terry Radomski. (Martin is the son of Mrs. F. C. Martin, secretary to LDEF Chief Scientist Bill Kinard)
1	1/13/90	"Attack of the Killer Tomatoes" referring to the student (SEEDS) experiment, sending 12.5 million tomato seeds into orbit aboard LDEF.
1	1/13/90	"Notre Dame Victory March" for pilot Jim Wetherbee, graduate of Notre Dame. Sung by quartet of JSC Mission Operations Directorate personnel, all Notre Dame graduates (Lead: Mark Ferring, class of '80. Tenor: Chris McKenna, class of '84. Baritone: Pete Hasbrook, class of '85. Bass: Fisher Reynolds, class of '82) CAPCOM: Ken Bowersox
1	1/14/90	"Bow Down to Washington", University of Washington's fight song for Mission Specialist Bonnie Dunbar. (from tape with a bunch of fight songs performed by USC band)
1	1/15/90	"Glory, Glory, Colorado", the University of Colorado fight song, in honor of Mission Specialist Marsha Ivins.
	1/16/90	Three-part wakeup call in honor of Shuttle Commander Dan Brandenstein's 47 th birthday including: a trombone and piano ensemble playing "Danny Boy" performed by Martin and Radomski; Boston Celtics basketball forward Larry Bird offering congratulations to the crew and birthday wishes to Brandenstein; and Astronaut Office personnel singing "Happy Birthday".
	1/17/90	"Washington and Lee" the fight song of Washington and Lee University for David Low.
	1/18/90	"Born to Be Wild" Steppenwolf
1	1/19/90	"Anchor's Aweigh" for Lt. Commander U.S. Navy Wetherbee; and University of Wisconsin-River Falls' fight song performed by the school's pep band in honor of graduate Brandenstein

February 28-March 4, 1990 DoD Mission - NOTHING FOUND **STS-36**

STS-31	April 24-29, 1990
4/25/90	"Crew members began their day at 2:43 a.m. when Capcom Kathy Thornton woke the crew with 'Space is Our World,' an original song written by the Houston band 'Private Numbers' with the help of the STS-31 flight training team."
4/26/90	"Shout" by Otis Day and the Knights from the soundtrack of the movie "Animal House"
4/27/90	"Kokomo" by Beach Boys
	CAPCOM: Kathryn Thornton
4/28/90	"Cosmos" by Frank Hays on album "Don't Ask" in honor of Hubble Telescope CAPCOM: Kathryn Thornton
4/29/90	"Rise and Shine" by Raffi with Ken Whiteley
	CAPCOM: Kathryn Thornton
STS-41	October 6-10, 1990
10/7/90	
10/8/90	,, , , , , , , , , , , , , , , , , , , ,
10/9/90	
10/10/9	, ,

November 15-20, 1990 DoD Mission - NOTHING FOUND **STS-38**

STS-35

December 2-10, 1990 The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

1110 01	The months are shall all shall are s
STS-37	April 5-11, 1991
4/6/91	Music by Marching Illini Band from the University of Illinois. Band members had a special message for one of their alumni STS-37 commander Steve Nagel. An Illinois native, Nagel graduated from the University of Illinois in 1969.
4/7/91	honor of STS 37 pilot Ken Cameron who is a lieutenant colonel in the U.S.M.C.
4/8/91	"Hail Purdue" by Purdue University Band for alumni Jerry Ross.
4/9/91	"10,000 Men of Harvard Want Victory Today" sung by Harvard Glee Club, in honor of Jay Apt, a Harvard graduate. About five minutes after the wake up call, Apt played a recorded Scottish tune from Atlantis in honor of the highest and fastest Highlanders, Ross and Cameron.
4/10/9	1 "La Bamba" by the Brass Rhythm and Reeds for Linda Godwin who played saxophone in the band. Flight director Milt Heflin played Trombone in the same band.
4/11/9	1 "Magnum PI" Theme with a greeting by Tom Selleck for Mission Specialist Linda Godwin.

STS-39

 $April\ 28-May\ 6,\ 1991$ The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-40	June 5-14,	1991
	6/6/91	"Great Balls of Fire" Jerry Lee Lewis
	6/7/91	A "Military Medally" Marine Corps and Air Force music for O'Connor, a Colonel in USMC
		and Gutierrez, a Lt. Colonel in the Air Force.
	6/8/91	"Yakety Yak" by The Coasters
	6/9/91	Greetings from crew's children followed by "Somewhere Out There" from movie "An
	C/10/01	American Tail"
	6/10/91	"Cow Patty", a humorous western ballad that is a favorite of mission specialist Tammy
	6/11/91	Jernigan. "Shout. The Febru College Theme" by Otic Day and the Unights from the mayie "Animal
	0/11/91	"Shout - The Faber College Theme" by Otis Day and the Knights from the movie "Animal House"
	6/12/91	"Twistin' the Night Away" by Sam Cooke, from the movie, "Animal House"
	6/13/91	"Chain Gang" by Nylons.
	6/14/91	"What a Wonderful World" Louis Armstrong.
STS-43	August 2-1	1. 1991
	8/3/91	"Back in the High Life" by Steve Winwood
	8/4/91	Excerpt from "Dances With Wolves" soundtrack for James Adamson who
		is from Montana
	8/5/91	Custom music medley sung by friends of the STS-43 crew from Rockwell-Downey, in
		California.
	8/6/91	Music of the Clear Lake High School Orchestra playing selections from "Phantom of the
		Opera." Commander John Blaha's daughter, Caroline, plays in the orchestra.
	8/7/91	"What a Wonderful World" Louis Armstrong
	8/8/91	"Cowboy in the Continental Suit" by Chris LeDoux for country and western fan James
		Adamson
	8/9/91	Washington and Lee University fight song for graduate G. David Low
	8/10/91	Sounds from Shannon Lucid's backyard.
STS-48	September	12-18, 1991
	9/13/91	"Hound Dog" by Elvis Presley
	9/14/91	"Release Me" by Elvis Presley. In anticipation of deployment of Upper Atmosphere Research
		Satellite (UARS).
	9/15/91	"Bare Necessities" from film "Jungle Book". Played for Ken Reightler's daughters who were
		in Mission Control Center viewing room.
	9/16/91	"Are You Lonesome Tonight?" by Elvis Presley. Chosen for its line "Are you sorry we
		drifted apart?" referring to Discovery's separation from its payload (UARS)
	9/17/91	"Return to Sender" by Elvis Presley. In honor of expected landing.

STS-44 November 24-December 1, 1991

11/25/91 "Space - the final frontier.

This is the voyage of the Space Shuttle Atlantis -

Its ten-day mission:

To explore new methods of remote sensing and observation of the planet Earth -

To seek out new data on radiation in space, and a new understanding of

the effects of microgravity on the human body -

To boldly go where two hundred and fifty-five men and women have gone before.

Hello - Fred, Tom, Story, Jim, Tom, and especially Mario -

This is Patrick Stewart, choosing not to outrank you as Captain Jean-Luc Picard, saying that we are confident of a productive and successful mission.

Make it so."

All this to the theme music of "Star Trek - the Next Generation" Capcom Marsha Ivins contacted actor Patrick Stewart to request the special wakeup call for Mario Runco, a big "Star Trek" fan. PC

11/26/91 Reveille (bugle call) followed by gunfire preceding "This is the Army, Mr.

Jones" by Irving Berlin from the movie, "This is the Army."

11/27/91 Unidentified James Brown song.

11/28/91 Recorded turkey gobbles followed by "Cheeseburger in Paradise" Jimmy

Buffett

"Twist and Shout" from the movie "Ferris Bueller's Day Off"

11/30/91 University of Alabama and Auburn University fight songs. For football game that day

between the schools and Auburn graduates Jim Voss and Jan Davis. Voss was on Atlantis for

his first spaceflight, Davis was the Capcom. PC

12/1/91 "In the Mood".

STS-42 January 22-30, 1992

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-45 March 24-April 2, 1992

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-49	May 7-16, 19	992
5/	/8/92	"God Bless the U.S.A." by Lee Greenwood.
5/	/9/92	"Rescue Me' by Fontella Bass.
5/	/10/92	Theme song from the Disney animated feature "Winnie the Pooh" with
		taped messages from Kathy Thornton's children for Mother's Day.
5/	/11/92	Theme from the film, "Rocky."
5/	/12/92	"Kokomo" by The Beach Boys.
5/	/13/92	No wakeup call.
5/	/14/92	"I Wake Up Every Morning With a Smile on My Face" by Boxcar Willie.
5/	15/92	"Son of a Son of a Sailor" by Jimmy Buffett

STS-50 June 25-July 9, 1992

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-46 July 31-August 8, 1992

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-47 September 12-20, 1992

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-52	October 22-	November 1, 1992
	10/23/92	"Wake Up Columbia" an original composition by Crow Carroll
	10/24/92	"Shake, Rattle, and Roll" by Big Joe Turner, in honor of deployment of Laser Geodynamics
	10/26/02	Satellite-II which will help measure the shake, rattle, and roll of the Earth's crust
	10/26/92	"The World is Waiting for the Sunrise" written by Gene Lockhart and performed by Les Paul
		and Mary Ford. CAPCOM: Don Thomas
	10/27/02	
	10/27/92 10/28/92	Birthday wishes to STS-52 Pilot Mike Baker woke Columbia's crew Hawaiian music set the tone for today's planned discussion between the STS-52 crew, students
	10/28/92	at the University of Hawaii and the Polynesian sailing canoe "Hokulea" located somewhere in the South Pacific.
	10/29/92	"Mack the Knife" Bobby Darin
	10/30/92	"Bang the Drum" Todd Rundgren, in honor of Max-Q drummer and Mission Commander Jim
		Wetherbee.
	10/31/92	"Monster Mash" Bobby "Boris" Pickett
	11/1/92	"Notre Dame Victory March" sung by JSC employees and Notre Dame grads, Chris
		McKenna, Mark Ferring, Pete Hasbrook, and Fisher Reynolds. Notre Dame is also the alma
		mater of Wetherbee.
STS-53	December 2	2-9, 1992 (Dog Crew I)
	12/3/92	"Jingle Bells" by the Singing Dogs.
	12/4/92	"I Want to Be a Dog", a children's song by Nancy Cassidy
	12/5/92	Bagpipe medley by Houston Highlanders Pipe Band. (Medley: Bonnie Dundee, Gary Green, and The Eyes of Texas).
	12/7/92	"Anchor's Aweigh" played for crew members Dave Walker and Bob Cabana
	12/8/92	"Caissons Go Rolling Along" by Bob Sharples and His Military Band in honor of Army
		Lieutenant Colonels Jim Voss and Rich Clifford.
STS-54	January 13-	19, 1993
	1/14/93	The Air Force Song ("Off We Go Into the Wild Blue Yonder").
	1/15/93	"Hail Purdue" by Purdue Band and Glee Club. For Greg Harbaugh, a
		Purdue alumnus.
	1/16/93	No wakeup call sent.
	1/17/93	"Centerfield" by John Fogerty.
	1/18/93	"Stardust" by Willie Nelson
	1/19/93	"Ain't Misbehavin'" by Eddie Higgins and Rebecca Parris
STS-56	April 8-17,	1993

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-55

 $April\ 26-May\ 6,\ 1993$ The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

6/22/93 "Sitting on Top of the World" by Les Paul and Mary Ford	
5 22 75 Siming on rop of the world by Des radi and waity rold	
6/23/93 "The Smurfs" in honor of Mission Specialist Nancy Sherlock, nicknamed "Smurf".	
6/24/93 "Rendezvous" by The Hudson Brothers	
6/25/93 "The Walk of Life" by Dire Straits in honor of upcoming space walk	
6/26/93 "Holiday" by Madonna "to suggest the crew take some time to celebrate the success	of their
mission."	
6/27/93 "I Got You (I Feel Good)" by James Brown, "a favorite tune of Payload Commando	er David
Low.	
6/28/93 "Catch a Falling Star" by Perry Como.	
7/1/93 "I'll Be Home For Christmas"	
The mission was extended twice to wait for acceptable landing weather in	
Florida. On July 1st if the weather was acceptable it would land in Florida,	
otherwise it would be sent to California. So it wasn't a question of whether	
they would land that day but where. Of course after that many delays the	
crew may have wondered when they would finally make it home Capcom	
Susan Helms played "I'll Be Home For Christmas". Given that it was July	
1st they presumably did make it home in time. PC	

STS-51	September 12-22, 1993
9/13/93	"Please Release Me" by Elvis Presley. In preparation for deployment of
	ORFEUS-SPAS payload. The singer was actually well known Elvis
	impersonator Carl Walz on his maiden spaceflight. He had the unusual
	distinction of hearing his own voice singing for his first wakeup in space.
	PC
9/14/93	"Changes in Attitudes, Changes in Latitudes" by Jimmy Buffett
9/15/93	"Don't Let the Stars Get in Your Eyes" by Perry Como
9/16/93	"Walk, Don't Run"
9/17/93	Videotape views of Earth with "Theme for the Common Man" by crew beat Mission
	Control's wakeup call. Of course the videotape views of the Earth are just on the flight day
	highlights. On the shuttle they just hear the music. PC
9/18/93	Crew played "A Whole New World" for Mission Control followed by "Star Wars Theme"
	sent to Discovery.
9/19/93	"Rendezvous" by Hudson Brothers
9/20/93	"Heartbreak Hotel" by astronaut band Max-Q.
9/21/93	"Surfin' Safari" by The Beach Boys

STS-58	October 18	-November 1, 1993
	10/19/93	No music, just greeting, "Good morning, how are you?" from Linda Ham,
		Flight Director.
	10/20/93	"Theme From the Movie 2001, a Space Odyssey"
	10/21/93	No wakeup call sent.
	10/22/93	"Jump In the Line" by Harry Belafonte; and "Doctor! Doctor!" by
		Thompson Twins.
	10/23/93	"I Know You're Out There, Somewhere" by The Moody Blues
	10/24/93	"Back Home in Indiana" by Jim Nabors for Mission Specialist David Wolf,
		who hails from Indianapolis.
	10/25/93	"Shiny Happy People" by R.E.M.
	10/26/93	"Happy Trails" by Roy Rogers
	10/27/93	"Look At Us Now" by Joe Walsh
	10/28/93	No wakeup call sent.
	10/29/93	"From A Distance" by Bette Midler
	10/30/93	Theme from "St. Elsewhere" by Mike Post
	10/31/93	"Monster Mash" by Bobby "Boris" Pickett
STS-61	December 2	2-13, 1993
	12/2/93	"Cosmos" by Frank Hayes (6:57 p.m.)
	12/3/93	"Get Ready" by Rare Earth
	12/4/93	"Fanfare for the Common Man" by Aaron Copland
	12/5/93	"With a Little Help From My Friends" by The Beatles
	12/6/93	"Doctor My Eyes" by Jackson Browne
	12/7/93	"I Can See Clearly Now" by Johnny Nash
	12/8/93	A traditional Swiss Alpine song chosen by Mission Specialist Claude Nicollier
	12/9/93	"A Hard Day's Night" by The Beatles
	12/10/93	"Mamas Don't Let Your Babies Grow Up to Be Cowboys" by Willie Nelson
	12/11/93	"My Heroes Have Always Been Cowboys" by Willie Nelson
	12/12/93	"I Can See For Miles" by The Who
STS-60	February 3	-11, 1994
	2/4/94	"Early Morning Riser" by Pure Prairie League
	2/5/94	"Rawhide" sung by the STS-60 simulation and training team
	2/6/94	"The Bug" by Mary Chapin Carpenter
	2/7/94	"Let There Be Peace on Earth" sung by the fourth graders of the Armand Bayou Elementary
		School in Clear Lake. One of the singers was Emily Reightler, the daughter of shuttle pilot
		Ken Reightler. She was celebrating her tenth birthday.
	2/8/94	"Sweet Home Alabama" by Lynyrd Skynyrd in honor of astronaut Jan Davis of Huntsville.
	2/9/94	Russian folk tunes in honor of Mission Specialist Sergei Krikalev, the first Russian cosmonaut
		to fly aboard a U.S. spacecraft.
	2/10/94	"I Get Around" by The Beach Boys.
	2/11/94	"Homeward Bound" by Simon and Garfunkel.

STS-62	March 4-18, 1994
3/5/94	"I Got You (I Feel Good)" by James Brown
3/6/94	"Picky, Picky Head" by Wailing Souls from movie, "Cool Runnings".
	A favorite movie of John Casper's children. PC
3/7/94	Medley of Armed Forces anthems sung by the U.S. Military Glee Club: The
	Air Force Song ("Off We Go Into the Wild Blue Yonder"), "Anchors
	Aweigh", U.S. Army Anthem, "The Caissons Go Rolling Along" and The
	Marine Corps Hymn "Halls of Montezuma". The five person crew included
	Air Force Casper, Marine Allen, Army Gemar, Navy Thuot, and
	civilian Ivins. This is the first time all of the major Armed Forces were
	represented on once space mission, hence the medley. PC
3/8/94	"Space Shuttle Boogie" written by Cindy and Michael Rosenbaum
3/9/94	"Wake the World" by The Beach Boys
3/10/94	Marine Corps Hymn "Halls of Montezuma"
3/11/94	"Takin' Care of Business" by Bachman-Turner Overdrive.
3/12/94	"Be Our Guest" from movie "Beauty and the Beast" soundtrack.
3/13/94	Crew with ½ day off beat MCC to wakeup call. They sent down "Surfin' USA" by The
	Beach Boys. MCC responded with "I Get Around" by The Beach Boys.
3/14/9	4 "Starship Trooper" by Yes.
3/15/94	"View From Above" written and performed by Allison Brown, who was inspired to write the
	song by Mission Specialist Marsha Ivins.
3/16/94	"Travelin' Prayer" by Billy Joel.
3/17/94	č ,
3/18/94	4 "The Mermaid" by The Clancy Brothers.

STS-59 April 9-20, 1994

The crew worked two shifts around the clock. Due to the 24 hour coverage, only one wakeup call was sent.

4/18/94 **Blue Team:** "Freedom" performed by the White Elementary School 5th

grade choir. Mission Specialist Rich Clifford's son, Brandon, was a student

at White.

STS-65 July 8-23, 1994

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-64 September 9-20, 1994

The high number of Max Q songs was in honor of mission specialist Susan Helms, a keyboardist for the all-astronaut band PC

for the all-astro	onaut band. PC
9/10/94	Parody of The Beach Boys song "Fun, Fun, Fun" called "We'll Have Fun, Fun, Fun on the
	Shuttle," sung by Max Q (from Mach 25 tape).
9/11/94	Parody of the song "My Girl" called "My World" by Max Q (from Mach 25 tape).
9/12/94	"Ace in the Hole" by George Strait.
9/13/94	Parody of The Beach Boys song "I Get Around" called "We Orbit Around" by Max Q (from
	Mach 25 tape).
9/14/94	Parody of the "Green Acres" TV theme by Max Q (from Mach 25 tape) called "On Orbit".
9/15/94	"Hound Dog" by Elvis Presley
9/16/95	"EVA" Surfing" by Max Q (from Mach 25 tape).
9/17/95	"Another Saturday Night" by Max Q (from Mach 25 tape).
9/18/94	"This Is the Time" by Billy Joel.
9/19/94	"Yakety Yak" by The Coasters.

Sounds of chirping birds and a crowing rooster and a medley of cartoon theme songs

STS-68 September 30-October 11, 1994

9/20/94

The crew worked two shifts around the clock but Mission Control did include one wakeup call.

including Woody Woodpecker.

10/11/94 "Tiny Bubbles" *There was a problem with the galley water system*putting bubbles into the crew's drinking water. So Capcom Bill
McArthur sent the song to the Blue shift. PC

STS-66 November 3-14, 1994

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent. (*JSC Query Book*).

STS-63 February 3-11, 1995

The high number of Max $\it Q$ songs was in honor of commander Jim Wetherbee, the drummer for the band. PC

2/4/95	"On Orbit is the Place to Be" by Max Q (from Mach 25 tape).
2/5/95	"Another Saturday Night" by Max Q (from Mach 25 tape).
2/6/95	"Make New Friends" From a Girl Scout Brownie troop (the daughter of the
	people who send flowers to MCC each mission is in the troop)
2/7/95	"Blue Danube Waltz" from soundtrack of "2001, A Space Odyssey"
2/8/95	Opening sequence of "Time" from Pink Floyd's album, "Dark Side of the
	Moon"
2/9/95	"Surfing EVA" by Max Q (from Mach 25 tape).
2/10/95	"Liberty Bell March" better known as the theme from the TV show, "Monty
	Python's Flying Circus."
2/11/95	"The End" by The Doors.

STS-67 March 2-18, 1995

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent. (*JSC Query Book*).

"Take the Long Way Home" by Supertramp.

STS-71	June 27-July 7,	1995

7/7/95

,- <i>,</i> 1	Jun	C Z / -July	7, 1993
	6/28/95		"I Got You Babe" by Sonny and Cher.
	6/29/95		"From a Distance" by Nancy Griffith. It was preceded by special birthday greetings to Pilot
			Charlie Precourt from his wife and daughters.
	6/30/95		"Your Wildest Dreams" by The Moody Blues.
	7/1/95		Russian pop song "Kuca, Kuca, Kuca" (pronounced Keesa Keesa Keesa)
	7/2/95		"Changes in Latitudes, Changes in Attitudes" by Jimmy Buffett
	7/3/95		The Florida State Seminole Fight Song "in honor of former Seminole Norm
			Thagardcelebrating his 52 nd birthday today".
	7/4/95		"America the Beautiful" by Whitney Houston was sent to wakeup Atlantis' crew just before
			the undocking with the Mir space station.
	7/5/95		"Flying solo and ahead of the Mir space station by about 120 nautical miles, the crew on
			board Atlantis awoke to a children's song, 'I Love My Moon,' a special dedication to
			Commander Hoot Gibson from his 26-day old daughter Emilee Louise." <i>Query Book</i> has
			singer as Tonja Weimer.
	7/6/95		Parodies of the Beatles' "Hello, Goodbye" and Paul Anka's "Lay Your Head on My
			Shoulder"

STS-70	July 13-22, 1995
7/14/95	"The crew of STS-70 was awakened shortly after three this morning Central time to the theme from 'Woody Woodpecker,' a cartoon character adopted as the mascot for the mission when real woodpeckers plucked holes in protective insulation on Discovery's external fuel tank last month causing a delay in the mission." MCC Status Report
7/15/95	"The workday began shortly after two o'clock this morning with a wakeup call from Kate Smith singing 'Beautiful Ohio' in honor of four of the five crewmembers being from that state." MCC Status Report
7/16/95	"The crew was awakened at 1:11 a.m. CDT to the sounds of Mission Specialist Nancy Currie's 8-year-old daughter, Stephanie, and her Ferguson Elementary School second-grade classmates singing 'God Bless the USA.' "MCC Status Report. JSC Query Book has song as "God Bless America."
7/17/95	Fight song for the Cleveland Indians, "Talkin' Tribe." "Mission Specialist Mary Ellen Weber responded with 'Good mornin' Houston, how 'bout then Indians?" MCC Status Report
7/18/95	"Beer Barrel Polka" by Gene Hackemack – because Cleveland is the polka capital of the world. Mission Control sent the theme from the movie "Starman" as a good night call.
7/19/95	Unknown.
7/20/95	"Eyes of Texas", a UT song. Randy Stone switched from an Aggie song to a UT song.
STS-69	September 7-18, 1995 (Dog Crew II)
9/8/95	"Hound Dog" by Elvis Presley.
9/9/95	Theme from "Scooby Doo."
9/10/95	old daughter) kindergarten class.
9/11/95	Theme from "Rin Tin Tin".
9/12/95	"A Hard Day's Night" by The Beatles.
9/13/95	Theme from the film "Patton", a tribute to Jim Voss who was promoted to the rank of Colonel in the U.S. Army.
9/14/95	Theme from cartoon TV show, "Underdog", attribute to Mike Gernhardt who has the same nickname.
9/15/95	"He's A Tramp" from the cartoon movie "Lady and the Tramp".
9/16/95	
9/17/95	

October 20-November 5, 1995 The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-74	November 1	2-20, 1995
11/13	5/95	"Dance of the Flowers" by Tchaikovsky. Referring to orbital ballet Atlantis will perform to
		dock with Mir.
11/14	1/95	"Yeager's Triumph" from "The Right Stuff" by Bill Conti.
11/15	5/95	"Somewhere Over the Rainbow" by Arlen, Harburg, and Stothart from the film, "The Wizard
		of Oz". Sung by Judy Garland.
11/16	5/95	"Blue Danube" by Johann Strauss.
11/17	7/95	"Northwest Passage" by Stan Rogers.
11/18	3/95	"Do Wah Diddy Diddy" performed as as a drill team chant cadence.
11/19	9/95	Theme from the IMAX film. "The Dream is Alive."

STS-72	January 11-20, 1996
1/12/96	
1/13/96	
-, -5, , ,	retrieval.
1/14/96	
1/15/96	
1/16/96	
1/17/96	
	White."
1/18/96	
1/19/96	
1/20/96	Theme from the IMAX film, "The Dream is Alive."
STS-75	February 22-March 9, 1996
	The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
STS-76	March 22-31, 1996
3/23/96	
3/24/96	
3/25/96	
	Ron Sega.
3/26/96	"Another Saturday Night" by Max Q
3/27/96	"Free Flying" written by Brandon and Richard Clifford for father Michael Clifford's
	spacewalk that day.
3/28/96	
3/29/96	"Stars and Stripes Forever" by John Philip Sousa.
STS-77	May 19-29, 1996
5/20/96	The Air Force Song ("Off We Go Into the Wild Blue Yonder") in honor of
	Commander John H. Casper, an Air Force Colonel, and pilot Curtis L.
	Brown, an Air Force Lieutenant Colonel.
5/21/96	
,,	conducted yesterday as part of the Spartan mission.
5/22/96	
5/23/96	J J
5/24/96	
5/25/96	"Down Under" by Men At Work, in honor of Australian-born Mission Specialist Andy Thomas
5/26/96	
	long
5/27/96	
5/28/96	
5/29/96	"I Can See Clearly Now" by Jimmy Cliff

STS-78	June 20-July 7, 1996
6/21/96	
	CAPCOM: Kay Hire
6/22/96	"Bad to the Bone" by George Thorogood & the Destroyers referring to musculoskeletal
	science experiments.
	CAPCOM: Kay Hire
6/23/96	
	Corps. Payload commander Susan Helms played xylophone on the recording.
	CAPCOM: Kay Hire
6/24/96	
	CAPCOM: Kay Hire
6/25/96	j j
< 10 < 10	CAPCOM: Kay Hire
6/26/96	
(10710)	CAPCOM: Bill McArthur
6/27/96	j j
6/28/96	CAPCOM: Bill McArthur "Coroling in My Mind" by James Toylor, Charles Brady considers Bakkins, NC his home
0/28/90	"Carolina in My Mind" by James Taylor. Charles Brady considers Robbins, NC his home. CAPCOM: Bill McArthur
6/29/96	
0/29/90	CAPCOM: Bill McArthur
6/30/96	
0/20/20	CAPCOM: Bill McArthur
7/1/96	"O, Canada" the Canadian National Anthem for Brent Thirsk
	CAPCOM: Bill McArthur
7/2/96	"Closer to Free" by The BoDeans for Linnehan.
	CAPCOM: Bill Gregory
7/3/96	"Wake Up Little Susie" by The Everly Brothers for Helms.
	CAPCOM: Bill Gregory
7/4/96	"God Bless the U.S.A." by Lee Greenwood; "Born in the USA" by Bruce Springsteen for the
	4 th of July.
	CAPCOM: Blaine Hammond
7/5/96	"Birthday" by The Beatles for Henricks 44 th birthday.
	CAPCOM: Blaine Hammond
7/6/96	"Don't Bring Me Down" by The Electric Light Orchestra
/- /-	CAPCOM: Blaine Hammond
7/7/96	"Time For Me to Fly" by REO Speedwagon.

STS-79	September 1	6-26, 1996
9/1	6/96	"Duke of Earl" by Gene Chandler.
		"Song was up linked in honor of Carl Walz's 20th anniversary. The song is one he performed
		for his wife, Pam, before they were married while he was a member of an Ohio band called
		"The Blue Moons". This is the second time Walz has spent his anniversary in orbit."
		CAPCOM: Kay Hire
9/1′	7/96	"Rescue Me" by Fontella Bass.
		"Capcom Kay Hire called the wakeup music "a message from Shannon," referring to U.S.
		astronaut Dr. Shannon Lucid who has spent approximately six months aboard Mir."
		CAPCOM: Kay Hire
9/1	8/96	"Hold On (I'm Coming)" performed by Sam and Dave referring to the return of Shannon
		Lucid.
9/1	19/96	"Whole Lotta Shakin' Goin' On" by Jerry Lee Lewis referring to the ARIS
		experiment. ARIS = Active Rack Isolation System, a set of
		sensors and actuators which dampen out vibrations for ultra-sensitive
		microgravity experiments. PC
9/2	20/96	"Cheeseburger in Paradise" by Jimmy Buffett referring to Shannon Lucid's thoughts of her
		diet after returning to Earth.
	21/96	"Another Saturday Night" By Max Q. Carl Walz is a member.
9/2	22/96	"Got Me Under Pressure" by ZZ Top referring to the raising of cabin pressure to 15.5 psi to
		transfer oxygen and nitrogen to Mir.
	23/96	"Please Don't Leave Me" by Fats Domino. Some music for undocking day
9/2	24/96	"Only Wanna Be With You" by Hootie and the Blowfish referring to the impending return of
		Lucid to her family.
9/2	25/96	"Danger Zone" by Kenny Loggins. Played in honor of the two Navy
		crewmen on board, Bill Readdy and Terrence Wilcutt. Wilcutt's a Marine,
		not Navy. (The Navy trains the Marine pilots so it's still a valid connection.)

PC

	11/20/96	"I Can See For Miles" by The Who
		CAPCOM: Bill McArthur
	11/21/96	"Theme From Fireball XL5"
		CAPCOM: Bill McArthur
	11/22/96	"Roll With the Changes" by REO Speedwagon; Some Phil Collins/Ge
		CAPCOM: Bill McArthur
	11/23/96	"Reelin' and Rockin'" by Chuck Berry
		CAPCOM: Bill McArthur
	11/24/96	"Roll With It" by Steve Winwood
		CAPCOM: Bill McArthur
	11/25/96	"Good Times Roll" by The Cars
		CAPCOM: Bill McArthur
	11/26/96	"Red Rubber Ball" by Cyrkle
		CAPCOM: Chris Hadfield
	11/27/96	"Alice's Restaurant" by Arlo Guthrie
		CAPCOM: Dom Gorie
	11/28/96	"Some Guys Have All the Luck" by Robert Palmer
		CAPCOM: Dom Gorie
	11/29/96	"Changes" by David Bowie
		CAPCOM: Dom Gorie
	11/30/96	"Break On Through" by The Doors
		CAPCOM: Dom Gorie
	12/1/96	"Shooting Star" by Bad Company
	12, 1, 5 0	CAPCOM: Dom Gorie
	12/2/96	"Stay" by Jackson Browne
	12/2/30	CAPCOM: Marc Garneau
	12/3/96	"Return to Sender" by Elvis Presley
	12,0,0	CAPCOM: Marc Garneau
	12/4/96	"Should I Stay or Should I Go" by The Clash
	, .,, ,	CAPCOM: Marc Garneau
	12/5/96	"Nobody Does It Better" by Carly Simon
	12,0,0	CAPCOM: Marc Garneau
	12/6/96	"Please Come Home For Christmas" by Sawyer Brown
	12, 0, 5 0	CAPCOM: Marc Garneau
STS-81	January 12-22	, 1997
	1/13/97	"Free Ride" by The Edgar Winter Group
		CAPCOM: Kay Hire
	1/14/97	"It Keeps You Runnin' " by The Doobie Brothers
		CAPCOM: Kay Hire
	1/15/97	"Hitchin' a Ride" by Vanity Fare
		CAPCOM: Kay Hire
	1/16/97	"Celebration" by Kool and the Gang
		CAPCOM: Kay Hire
	1/17/97	"I Got You (I Feel Good)" by James Brown
		CAPCOM: Kay Hire
	1/18/97	"Mack the Knife" by Bobby Darin
	1/19/97	"Ticket to Ride" by The Beatles (1:27 GMT)
	1/19/97	"So Long, Farewell" from "The Sound of Music" (23:27 GMT)
	1/21/97	"My Favorite Marcia" by The Allison Brown Quartet
	1/22/97	"Day-O, The Banana Boat Song" - Harry Belafonte
		ht.nasa.gov/gallery/audio/shuttle/sts-81/wakeup.html

STS-82 February 11-21, 1997

"Magic Carpet Ride" by Steppenwolf
CAPCOM: Chris Hadfield
"These Are Days" by 10,000 Maniacs
CAPCOM: Chris Hadfield
"Two Princes" by Spin Doctors
CAPCOM: Chris Hadfield
"Higher Love" by Steve Winwood
CAPCOM: Chris Hadfield
"The Packerena" For Mark Lee
CAPCOM: Chris Hadfield
"Shiny Happy People" by R.E.M.
CAPCOM: Chris Hadfield
"Dreams" by The Cranberries
CAPCOM: Chris Hadfield
"That Thing You Do!" Theme from the motion picture
CAPCOM: Chris Hadfield
"Five Hundred Miles Away From Home" by Reba McEntire
CAPCOM: Chris Hadfield
"Sloop John B." by The Beach Boys (down linked by crew)
"Born to Be Wild" by Steppenwolf
CAPCOM: Chris Hadfield

STS-83 April 4-8, 1997

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-84 May 15-24, 1997

This particular mission set a record for the number of different countries where people were born, Precourt, Collins, and Lu in the United States, Kondakova in Russia, Clervoy in France (representing ESA), and Foale in England and Noreiga in Peru. Of course, Foale and Noriega are both naturalized U.S. citizens and didn't represent their birth countries. Hence the large number of national anthems. PC

5/16/97	"Those Magnificent Men in Their Flying Machines" by The American Military Band
	CAPCOM: Bill McArthur
5/17/97	"Hold On, I'm Coming" by Sam and Dave
	CAPCOM: Bill McArthur
5/18/97	"British National Anthem – God Save the Queen"
	CAPCOM: Bill McArthur
5/19/97	"French National Anthem - La Marseillaise"
	CAPCOM: Bill McArthur
5/20/97	"Peruvian National Anthem"
	CAPCOM: Bill McArthur
5/21/97	"Russian National Anthem"
	CAPCOM: Bill McArthur
5/22/97	"Triste et Bleu (Sad and Blue)" - Michel Jonasz
	CAPCOM: Bill McArthur
5/23/97	"Anchors Aweigh/ The Air Force Song ("Off We Go Into the Wild Blue Yonder") USAF
	Theme/Marine Hymn" by The West Point Cadet Glee Club
	CAPCOM: Bill McArthur
5/24/97	"U.S. National Anthem"
	CAPCOM: Bill McArthur

STS-94 July 1-17, 1997

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

STS-85	August 7-19, 1997
8/8/97	"To the Moon and Back" by Savage Garden
	CAPCOM: Bill McArthur
8/9/97	"Don't Look Down" by Lindsay Buckingham
	CAPCOM: Bill McArthur
8/10/9	
	CAPCOM: Bill McArthur
8/11/9	, , ,
	CAPCOM: Bill McArthur
8/12/9	, , , , , , , , , , , , , , , , , , ,
	CAPCOM: Marc Garneau
8/13/9	
	CAPCOM: Marc Garneau
8/14/9	
	CAPCOM: Marc Garneau
8/15/9	
	CAPCOM: Marc Garneau
8/16/9	8 9
	There was no Japanese crewmember on this mission, but one of the
	experiments was a Japanese robot arm, a prototype for the ISS's Japanese
	Experiment Module, hence this very appropriate music. PC
0/15/0	CAPCOM: Marc Garneau
8/17/9	, , , , , , , , , , , , , , , , , , ,
0/10/0	CAPCOM: Marc Garneau
8/18/9	, , , , , , , , , , , , , , , , , , ,
0/10/0	CAPCOM: Marc Garneau
8/19/9	7 "Running On Empty" by Jackson Browne CAPCOM: Marc Garneau
1,44//	
nttp://s	paceflight.nasa.gov/gallery/audio/shuttle/sts-85/wakeup.html
STS-86	September 25-October 6, 1997
	_ *

U		September 23-October 6, 1997
	9/26/97	"Roll on Down the Highway" by Bachman-Turner Overdrive CAPCOM: Chris Hadfield
	0/27/07	
	9/27/97	"Dancing in the Dark" by Bruce Springsteen
		CAPCOM: Chris Hadfield
	9/28/97	"Takin' Care of Business" by Bachman-Turner Overdrive
		CAPCOM: Chris Hadfield
	9/29/97	"What I Like About You" by The Romantics
		CAPCOM: Chris Hadfield
	9/30/97	"Grand Ol' Flag" as played on the piano by Wetherbee's daughter Jenny
		Wetherbee
		CAPCOM: Chris Hadfield
	10/1/97	"What a Wonderful World" by Louis Armstrong
		CAPCOM: Chris Hadfield
	10/2/97	"Impression That I Get" by The Mighty Mighty Bosstones
		CAPCOM: Chris Hadfield
	10/3/97	"Fanfare For the Common Man" by The Orlando Pops
		CAPCOM: Chris Hadfield
	10/4/97	"Let It Ride" by Bachman-Turner Overdrive
		CAPCOM: Chris Hadfield
	10/5/97	"Shake, Rattle and Roll" by Huey Lewis and the News
		CAPCOM: Chris Hadfield
	10/6/97	"Homeward Bound" by Simon and Garfunkel
	10,0171	Trome ward Bound of Simon and Garrander

STS-87 November 19-December 5, 1997

11/20/97	"Hitchin' a Ride" by Vanity Fare
	CAPCOM: Bill McArthur
11/21/97	"Theme from New York, New York" by Frank Sinatra
	CAPCOM: Bill McArthur
11/22/97	"Ginga Shounen Tai" (Galaxy Boys) Theme from a Japanese science fiction puppet show CAPCOM: Bill McArthur
11/23/97	The Air Force Song ("Off We Go Into the Wild Blue Yonder") by Air Force Academy Cadet
	Chorus
	CAPCOM: Bill McArthur
11/24/97	"Walk of Life" by Dire Straits
11/21/7	CAPCOM: Ellen Ochoa
11/25/97	"Mishra Piloo" by Ravi Shankar
11/23/97	CAPCOM: Ellen Ochoa
11/26/97	"Ukrainian National Anthem"
11/20/57	CAPCOM: Ellen Ochoa
11/27/97	"America the Beautiful" by the U.S. Air Force Academy Cadet Chorale
11/2///	CAPCOM: Ellen Ochoa
11/28/97	"Florida State University Seminoles Fight Song"
	CAPCOM: Bill McArthur
11/29/97	"California Dreamin" by The Mamas and the Papas
	CAPCOM: Chris Hadfield
11/30/97	"This Island Earth" by The Nylons
	CAPCOM: Chris Hadfield
12/1/97	"Ultraman" Theme from Japanese TV science fiction cartoon show
	CAPCOM: Chris Hadfield
12/2/97	"Centerfield" by John Fogerty
	CAPCOM: Chris Hadfield
12/3/97	"Flight of the Bumble Bee" Rimsky-Korsakov
	CAPCOM: Marc Garneau
12/4/97	"Should I Stay or Should I Go" by The Clash
	CAPCOM: Marc Garneau
http://spacefligh	nt.nasa.gov/gallery/audio/shuttle/sts-87/wakeup.html
1 1 0	

STS-89 Jan	nuary 22-31, 1998
1/23/98	"It's Not Unusual" by Tom Jones
	CAPCOM: Marc Garneau
1/24/98	"Calypso" by John Denver
	CAPCOM: Marc Garneau
1/25/98	"Friends, We Are Migrant Birds" An old Russian pilots' song
	CAPCOM: Marc Garneau
1/26/98	"Singer From Down Under" by Slim Dusty
	CAPCOM: Marc Garneau
1/27/98	"Clap For the Wolfman" by Burton Cummings in honor of astronaut David Wolf who joined
	the crew after 120 days aboard Mir.
	CAPCOM: Marc Garneau
1/28/98	"Hide Away" by Stanley Clarke. For Mike Anderson PC
	CAPCOM: Marc Garneau
1/29/98	"Here We Go Loopty-Loo" ("Lupe de Lue") by Little Richard and The Disney Kids
	CAPCOM: Marc Garneau
1/30/98	"Bad To the Bone" by George Thorogood and the Destroyers
	CAPCOM: Marc Garneau
1/31/98	"Breakfast Blues" by Trout Fishing in America
	CAPCOM: Marc Garneau
STS-90 Apr	ril 17-May 3, 1998
4/18/98	"Think" by Aretha Franklin
	CAPCOM: Chris Hadfield
4/19/98	"Take Me Out to the Ball Game" sung by Harry Carey
	CAPCOM: Chris Hadfield
4/20/98	"Doctor My Eyes" by Jackson Browne
	CAPCOM: Chris Hadfield

	April 17-May 3, 1998
4/18/98	"Think" by Aretha Franklin
	CAPCOM: Chris Hadfield
4/19/98	"Take Me Out to the Ball Game" sung by Harry Carey
	CAPCOM: Chris Hadfield
4/20/98	"Doctor My Eyes" by Jackson Browne
	CAPCOM: Chris Hadfield
4/21/98	"Bad To the Bone" by George Thorogood and the Destroyers
	CAPCOM: Chris Hadfield
4/22/98	"Bad Case of Loving You" by Robert Palmer
	CAPCOM: Chris Hadfield
4/23/98	"I Got You (I Feel Good)" by James Brown
	CAPCOM: Chris Hadfield
4/23/98	"This Land Is Your Land" by Rod Taylor
	CAPCOM: Bill McArthur
4/24/98	"She Drives Me Crazy" by The Fine Young Cannibals
	CAPCOM: Bill McArthur
4/25/98	"Every Breath You Take" by The Police
	CAPCOM: Bill McArthur
4/26/98	"Fight On, State" Fight Song for Penn State University
	CAPCOM: Bill McArthur
4/27/98	"Turn, Turn, Turn" by The Byrds
	CAPCOM: Bill McArthur
4/28/98	"Take a Chance on Me" by Abba
	CAPCOM: Bill McArthur
4/29/98	"Round and Round" by Ratt
	CAPCOM: Bill McArthur
4/30/98	"Cruise Control" by Bruce Hornsby
	CAPCOM: Bill McArthur
5/1/98	"If I Only Had a Brain" from "The Wizard of Oz"
	CAPCOM: Bob Curbeam
5/2/98	"Stir It Up" by Bob Marley and the Wailers
	CAPCOM: Bob Curbeam
http://gr	aceflight.nasa.gov/gallery/audio/shuttle/sts-90/wakeup.html

STS-91	June 2-12, 1998
6/3/98	"Shake, Rattle, and Roll" by Huey Lewis and the News in honor of the flawless liftoff
	CAPCOM: Marc Garneau
6/4/98	<u> </u>
	CAPCOM: Marc Garneau
6/5/98	
	CAPCOM: Chris Hadfield
6/6/98	in in Jane 1 Jan
	CAPCOM: Chris Hadfield
6/7/98	
	CAPCOM: Chris Hadfield
6/8/98	
	space programs ending the three year Shuttle/Mir program
	CAPCOM: Chris Hadfield
6/9/98	
< 14.0.10	CAPCOM: Chris Hadfield
6/10/9	
	time in orbit aboard a Space Shuttle, a total of more than 51 days spent in orbit during six
	shuttle flights.
C 11.1.10	CAPCOM: Chris Hadfield
6/11/9	
	honor of Janet Kavandi
6/10/0	CAPCOM: Chris Hadfield
6/12/9	8 "Homeward Bound" by Simon and Garfunkel CAPCOM: Chris Hadfield
1,44//	orn com ching rivarion
nttp://	spaceflight.nasa.gov/gallery/audio/shuttle/sts-91/wakeup.html
STS-95	October 20 Nevember 7, 1009
515-95	October 29-November 7, 1998

5-95	October 29-	November 7, 1998
	10/30/98	"What a Wonderful World" Louis Armstrong. Played for Mission Specialist
		Scott Parazynski from his wife, Gail.
		CAPCOM: Mike Gernhardt
	10/31/98	"Cachito" Nat King Cole. This song about parenthood was directed to
		Pedro Duque and his wife, Consuelo, who recently has a baby.
		CAPCOM: Mike Gernhardt
	11/1/98	"This Pretty Planet" Tom Chapin requested by pilot Steve Lindsay's wife
		Diane And/or "Hallelujahs" by Chris Rice.
		CAPCOM: Mike Gernhardt
	11/2/98	"Moon River" Andy Williams. Annie Glenn requested it as a tribute to the
		friendship between Williams and her husband.
	4.4.40.10.0	CAPCOM: Chris Hadfield
	11/3/98	"The House is Rockin" Stevie Ray Vaughn. In honor of Mission Specialist
		Steve Robinson known as "Stevie Ray Robinson" by other members of his
		astronaut band, "Max Q"
	11/4/00	CAPCOM: Chris Hadfield "Walahi Chi " ("Yayna Shirit") a shaaring gang from Vais University
	11/4/98	"Wakaki Chi," ("Young Spirit") a cheering song from Keio University where Payload Specialist Chiaki Mukai received her medical degree.
		CAPCOM: Chris Hadfield
	11/5/98	"I Know You're Out There Somewhere" The Moody Blues. Chosen by
	11/3/90	Commander Curt Brown's family.
		CAPCOM: Scott Horowitz
	11/6/98	"Voyage Into Space", an original composition written for John Glenn by
	11,0,00	composer and pianist Peter Nero, a long-time friend of the Glenns.
		CAPCOM: Scott Horowitz
	11/7/98	"La Cucaracha". Played for Pedro Duque at request of his wife, Consuelo.
		CAPCOM: Scott Horowitz
	http://spaceflight.nas	a.gov/gallery/audio/shuttle/sts-95/html/ndexpage.html

STS-88 December 4-15, 1998

12/4/00	WO to Donald When the Townstations are accompanied the control of the C. H. alarm Control of the
12/4/98	"Get Ready" by the Temptations, an appropriate description of the full slate of activities the
	crew will be involved with as they get ready for the important events of the flight by checking
	out the equipment and tools that will be utilized during rendezvous, docking and space
	walking activities.
10/5/00	CAPCOM: Chris Hadfield
12/5/98	"Anchors Aweigh"
	CAPCOM: Chris Hadfield
12/6/98	"Somewhere Over the Rainbow" - Judy Garland. Requested by Bob Cabana's daughter, Judy
	CAPCOM: Bob Curbeam
12/7/98	"Jerry the Rigger," an old Celtic song. In honor of Mission Specialist Jerry Ross, who with
	fellow Mission Specialist Jim Newman, will conduct more than 18 hours of space walks
	during this flight.
	CAPCOM: Bob Curbeam
12/8/98	"Streets of Bakersfield" - Dwight Yoakum. Requested by the wife of Pilot Rick Sturckow, a
	California native.
	CAPCOM: Janet Kavandi
12/9/98	"Floating in the Bathtub" selected for Mission Specialist Jim Newman by his wife, Mary Lee.
	CAPCOM: Jim Newman
12/10/98	"God Bless the USA"- Lee Greenwood. Played for Mission Specialist -2, Nancy Currie at the
	request of her husband, David.
	CAPCOM: Bob Curbeam
12/11/98	"Trepak" a Russian dance from Tchaikovsky's "The Nutcracker" in honor of cosmonaut and
	Mission Specialist Sergei Krikalev.
	CAPCOM: Bob Curbeam
12/12/98	"Hound Dog" - Elvis Presley
	CAPCOM: Bob Curbeam
12/13/98	"Goodnight Sweetheart, Goodnight" - The Spaniels. As the crew prepare to say "goodnight" to
	the space station.
	CAPCOM: Bob Curbeam
12/14/98	"I Got You (I Feel Good)" - James Brown. In honor of the good
	feelings evoked by this successful first International Space Station Assembly mission.
	CAPCOM: Bob Curbeam
12/15/98	"Ride of the Valkyries" - Richard Wagner
,, _ 0	CAPCOM: Bob Curbeam
4 11	

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-88/html/ndexpage.html

STS-96 May 27-June 6, 1999

5/27/99	"California Dreamin" – Mamas and the Papas played for Mission Specialist Tammy Jernigan
5/28/99	"Danger Zone" – Kenny Loggins played in honor of Commander Kent Rominger, an alumnus of the Naval Fighter Weapons School of "Top Gun" fame
5/29/99	Themes from "Star Wars" by the Space Center Intermediate Band. Mission Specialist Dan Barry's daughter Jenny plays flute in that band.
5/30/99	"Morning Colors" – U.S. Coast Guard Band or "Morning Call" by USMC Band.
5/31/99	"Amarillo by Morning" by George Strait. Played in honor of Pilot Rick Husband, who is from Amarillo, Texas.
6/1/99	"Exultate Jubilate" by Mozart. This is a favorite of Canadian Space Agency astronaut Julie Payette.
6/2/99	"Vasha Blagarodye", a Russian song, followed by "The Charleston". Played for cosmonaut Valery Tokarev and Mission Specialist Ellen Ochoa.
6/3/99	"Free Bird" by Lynyrd Skynyrd in anticipation of the Discovery's departure from the ISS.
6/4/99	"Good Morning Starshine" in recognition of the deployment of the Starshine satellite.
6/5/99	"The Longest Day" – Theme from the movie to commemorate what spacecraft communicator in Mission Control Mario Runco called a "landing of a different kind" referring to D-Day on June 6, 1944

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-96/html/ndexpage.html

STS-93 July 22-July 27, 1999

7/23/99	"Beep Beep" – Louis Prima; music for Eileen Collins provided by her family.
7/24/99	"Brave New Girls" – Teresa
7/25/99	"Someday Soon" written by Judy Collins and performed by Suzy Boguss chosen in honor of
	Pilot Jeff Ashby
7/26/99	"The Sounds of Silence" – Simon and Garfunkel
7/27/99	"A Little Traveling Music" – Barry Manilow requested by Hawley's wife Eileen, and The Air
	Force Song ("Off We Go Into the Wild Blue Yonder") played for Collins and Coleman.

 $\underline{http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-93/html/ndexpage.html}$

STS-103 December 19 - 27, 1999

12/20/99	Bachman-Turner Overdrive's "Taking Care of Business"
	$oldsymbol{c}$
12/21/99	"Rendezvous" by Bruce Springsteen
12/22/99	"Hucklebuck" performed by Beau Jocque and the Zydeco Hi-Rollers, a tune that the
	spacewalkers heard many times while training hundreds of hours for the mission in the 6.5-
	million gallon water tank at the Johnson Space Center in Houston.
12/23/99	Traditional Swiss music was played for Nicollier and the song "Only When I Sleep" by The
	Corrs was played for Foale.
12/24/99	Steppenwolf's "Magic Carpet Ride" was played for Smith and the children's song
	"Skinnamarink" by Kimbo for Grunsfeld.
12/25/99	Bing Crosby's "I'll Be Home for Christmas."
12/26/99	"We're So Good Together" by Reba McEntyre, played for Pilot Scott Kelly at the request of
	his wife.
12/27/99	"The Cup of Life," sung by Ricky Martin. The music was the official song of France '98
	World Cup Soccer and was played for Mission Specialist #2, Jean-François Clervoy of the
	European Space Agency at the request of his son.

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-103/html/ndexpage.html

STS-99 February 11 - 22, 2000

The crew worked two shifts around the clock but Mission Control sent wakeup calls anyway. 2/11/2000 "Time for Me to Fly" - REO Speedwagon (Blue Team wakeup call) "Some Guys Have All The Luck" - Robert Palmer (Red Team wakeup call) 2/12/2000 "Eye in the Sky" - Alan Parsons Project (Blue Team wakeup call) 2/12/2000 "Jumpin' Jive" - Cab Calloway as performed by Joe Jackson (Red Team wakeup call) 2/13/2000 2/13/2000 "Linus and Lucy" by Vince Guaraldi (Blue Team wakeup call) 2/14/2000 "Journey to the Stars" theme song to the popular Japanese anime Galaxy Express - performed by Godiego (Blue Team wakeup call) "Radar Love" - performed by Golden Earring (Red Team wakeup call) 2/14/2000 "New York, New York" - performed by Frank Sinatra (Red Team wakeup call) 2/15/2000 "Canon in D" by Johann Pachebel - as performed by George Winston (Blue Team wakeup 2/15/2000 call) 2/16/2000 "We Saw the Sea" - performed by The Naval Academy Glee Club (Blue Team wakeup call) "Smack Dab in the Middle" - performed by Ray Charles (Red Team wakeup call) 2/16/2000 2/17/2000 "Die Moldau" - performed by The Boston Symphony Orchestra (Red Team wakeup call) "Take a Little Less" - performed by Barton and Sweeney (Blue Team wakeup call)
"Magic Carpet Ride" - performed by Steppenwolf (Red Team wakeup call) 2/17/2000 2/18/2000 2/18/2000 "Rawhide" - performed by Frankie Laine (Blue Team wakeup call) 2/19/2000 "One after 909" - performed by The Beatles (Blue Team wakeup call) "Catch the Moments As They Fly By" - Traditional Celtic Music - Shannon River Dance 2/19/2000 (Red Team wakeup call)

2/20/2000 "Walk Don't Run" - California Guitar Trio (Red Team wakeup call)
2/21/2000 "Stay" Frankie Valli & Four Seasons (Blue Team wakeup call)

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-99/html/ndexpage.html

STS-101 May 19 - 29, 2000

2/19/2000	"Free Fallin'" - Tom Petty, played for Mission Specialist Susan Helms
2/20/2000	"Shining Brightly" by Bob Seger in honor of the upcoming evening
	rendezvous with the International Space Station.
2/21/2000	"Lookin' Out the Window" by Stevie Ray Vaughan
2/22/2000	"Haunted House" by Roy Buchanan since the opening lyrics say "I just
	moved into a new house today" in honor of the STS-101 crew entering
	what will be a new home for astronauts and cosmonauts later this year.
2/23/2000	"I Only Have Eyes for You" by Flamingos a long distance dedication
	from Kathy Halsell to her husband, Mission Commander Jim Halsell
2/24/2000	"I'm Gonna Fly" by Amy Grant which was requested by Pilot Scott
	Horowitz's wife
2/25/2000	"Don't It Make You Wanna Dance" by Jerry Jeff Walker was played at
	the request of Williams' son and family.
2/26/2000	Untitled Russian song, author unknown
2/27/2000	"25 or 6 to 4" - Chicago
2/28/2000	"El Capitan" - John Philip Sousa
http://spaceflight	.nasa.gov/gallery/audio/shuttle/sts-101/html/ndexpage.html

STS-106 September 8 - 20, 2000

9/8/2000	"I'll Be" - Edwin McCain
9/9/2000	" I Say a Little Prayer" by Diana King, which was played for Wilcutt
9/10/2000	
9/10/2000	"All Star" by the band Smash Mouth. The song was played for the two space walkers at the request of the EVA training and flight control teams to celebrate what will be the sixth space
	walk in support of station assembly and the 50th space walk in Space Shuttle history.
9/11/2000	"The Hukilau Song"by Big Kahuna and the Copa Cat Pack, was played for Lu at the request
9/11/2000	of his sister.
9/12/2000	"Brown-Eyed Girl" by Van Morrison - was played for Mastracchio at the request of his wife.
9/13/2000	"Kombaht" by the group called Loobeh, played for Mission Specialist Boris Morukov of the
	Russian Aviation and Space Agency.
9/14/2000	"Haze Has Melted Away" - Konstantin Nikolsky's Group
9/15/2000	"University of Connecticut Fight Song" - University of
	Connecticut Band
9/16/2000	U.S. Coast Guard Hymn "Semper Paratus" (Always Ready), played for Burbank, a Lieutenant
	Commander in the Coast Guard.
9/17/2000	"YMCA" was played for Scott Altman at the request of his wife.
9/18/2000	"Home in the Islands" by The Brothers Cazimero, played for Lu who considers Honolulu a
	hometown.
9/19/2000	"Houston" performed by Dean Martin (played by crew as well as ground).
http://spaceflight.	.nasa.gov/gallery/audio/shuttle/sts-106/html/ndexpage.html

STS-92 October 11-24, 2000

10/12/2000	"Incense and Peppermints" – Strawberry Alarm Clock. The tune is part of the "Austin Powers: International Man of Mystery" movie soundtrack and was played for the crew members, who are fans of the film.
10/13/2000	"Girls Just Want to Have Fun" – Cyndi Lauper
10/14/2000	"Eikan wa kimi mi Kagayku" or "You're the Winner" or literally "The Glory is Coming to
	you", a Japanese High School Baseball Association Inspirational Marching Song
	performed by Daisuke Kaga.
10/15/2000	"Camelot" from the movie "Monty Python and the Holy Grail"
10/16/2000	"Je t'aimais, Je t'aime, J'taimerai" - A French love song by Francis Cabrel.
10/17/2000	"The Army Goes Rolling Along", performed by the United States Military Academy Band
	and its field musical group The Hellcats.
10/18/2000	The theme from the movie "Mission Impossible."
10/19/2000	"Anchors Away – Fanfare Version" as performed by the United States Naval Academy Band.
10/20/2000	"The River" - Garth Brooks
10/21/2000	"Saturday Night" - Bay City Rollers
10/22/2000	The Air Force Song ("Off We Go Into the Wild Blue Yonder").
10/23/2000	"Bad Bad Leroy Brown" by Jim Croce
10/24/200	"Deja Vu" by Crosby, Stills, Nash, and Young
http://spaceflight.nas	sa.gov/gallery/audio/shuttle/sts-92/html/ndexpage.html

STS-97 November 30-December 11, 2000

12/1/2000	"Stardust" by Willie Nelson, played for Canadian Space Agency astronaut Garneau
12/2/2000	"I Believe I Can Fly," by R. Kelly
12/3/2000	"Sunshine of Your Love" - Cream
12/4/2000	"Lovin' You Lots & Lots" from the movie "That Thing You Do" by Norm Wooster Singers sent up to Bloomfield from his wife
12/5/2000	"Fight On" (Trojan Fight Song) - University of Southern California fight song for Noriega by
	USC Marching Band
12/6/2000	"O Mio Babbino Caro" - Puccini opera aria for Garneau
12/7/2000	"Here Comes the Sun" – The Beatles. For Joe Tanner
12/8/2000	"Rattled" – The Traveling Wilburys
12/9/2000	"Back in the Saddle Again" - Gene Autry. In honor of Bloomfield, who is making his second
	space flight and his second fly-around of a space station.
12/10/2000	"Beyond the Sea" - Bobby Darin. A reference to the traditions observed on the station by
	Navy Commander Jett and Navy Captain Shepherd, including the ringing of the station's
	ship's bell when the shuttle crew departed Saturday.
12/11/2000	"I'll be Home for Christmas" – Bing Crosby
http://spaceflight.na	sa.gov/gallery/audio/shuttle/sts-97/html/ndxpage1.html

STS-98 February 7-20, 2001

2/8/2001	"Where You At", a jazz selection by Pilot Mark Polansky's late uncle, Zoot Sims
2/9/2001	"Who Let the Dogs Out" - Baha Men, played in honor of Commander Ken Cockrell, who previously flew on a Shuttle mission with astronauts dubbed the "Dog Crew"
2/10/2001	"Girl's Breakdown" - Alison Brown. Alison wrote the tune especially for mission specialist Marsha Ivins. Mission Control played the tune in honor of Ivins who had the critical task on Saturday of attaching the space lab Destiny to the International Space Station.
2/11/2001	"Blue Danube Waltz" - Johann Strauss, Jr. from the film "2001 – a Space Odyssey"
2/12/2001	"Fly Me to the Moon" - Frank Sinatra
2/13/2001	"For Those About to Rock" - AC/DC
2/14/2001	"To the Moon and Back" – Savage Garden
2/15/2001	"Sally Ann" - New Grange
2/16/2001	"The Trail We Blaze" - Elton John
2/17/2001	"Blue" - Eiffel 65
2/18/2001	"Fly Away" - Lenny Kravitz
2/19/2001	"Bad To the Bone" - George Thorogood and the Destroyers
2/20/2001	"Should I Stay or Should I Go" by the Clash, as the crew prepared for their return trip to Earth
http://spaceflight.n	nasa.gov/gallery/audio/shuttle/sts-98/html/ndxpage1.html

STS-102 March 8-21, 2001

3/8/2001	"Living the Life" performed by Rockit Scientists a group of training division instructors with whom shuttle Commander Jim Wetherbee plays drums from time to time.
3/9/2001	"Vashe Blagorodiye" a song from a movie entitled "White Sun of the Desert" that is
3/3/2001	traditionally watched by cosmonauts the night before a launch from the Baikonur
	Cosmodrome in Kazakhstan. The song was played for Expedition Two Commander Yury
	Usachev, who is spending his last day aboard Discovery before beginning a handover of
	station command with Expedition One crewmember Yuri Gidzenko.
3/10/2001	"Nothing's Gonna Stop Us Now" by Starship and played in anticipation of the planned
	Extravehicular Activity (EVA).
3/11/2001	"Blast Off" from the animated feature Scooby Doo and the Alien Invaders, played for
	astronaut Paul Richards as a selection from his children.
3/12/2001	"From A Distance" performed by Nanci Griffith awakened Discovery's crew, and astronauts
	Paul Richards and Andy Thomas quickly began preparing for a planned six and a half
	hour space
3/13/2001	"Free Fallin" by Tom Petty a favorite of astronaut Susan Helms who today will take up
	official residence on the station as a member of the outpost's second crew.
3/14/2001	"Should I Stay or Should I Go" by The Clash played for returning International Space Station
	Expedition One Commander Bill Shepherd from his wife, Beth.
3/15/2001	"She Blinded Me With Science" by Thomas Dolby played in recognition of the laboratory
0.11.5.10.00.1	outfitting and initial station scientific work enabled by Discovery's flight.
3/16/2001	"The Rising of the Moon" by The Clancy Brothers with Tommy Makem selected for
2/17/2001	Discovery's Pilot Jim Kelly by his family in honor of St. Patrick's Day tomorrow.
3/17/2001	"Notre Dame Victory March" by "Flight Room Singers" Four Flight Controllers - Chris
2/10/2001	McKenna, Mark Ferring, Pete Hasbrook and Fisher Reynolds
3/18/2001	"Moscow Windows" – Folk song
3/19/2001	"Just What I Needed," performed by The Cars and played for returning International Space
	Station Commander Bill Shepherd, who, along with crew mates Yuri Gidzenko and
3/20/2001	Sergei Krikalev, is riding home aboard Discovery after four and a half months in orbit. "Wipe Out" – Surfaris
	wipe Out - Suitaits

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-102/html/ndxpage1.html

STS-100 April 19-May 1, 2001

4/20/2001	"Then the Morning Comes" by the musical group Smash Mouth. It was chosen for Phillips, making his first spaceflight.
4/21/2001	"Danger Zone" - Kenny Loggins from the soundtrack to Top Gun.
4/22/2001	"Take It From Day to Day" by Canadian Stan Rogers played for Hadfield in honor of the space walk – the first ever by a Canadian.
4/23/2001	"Both Sides Now" - Judy Collins
4/24/2001	"What A Wonderful World" by Louis Armstrong. The song was played for Parazynski in
	honor of today's spacewalk.
4/25/2001	"Con te Partiro" ("With You I Will Go"), sung by Italian opera singer Andrea Bocelli. It was played for Guidoni who is from Italy.
4/26/2001	Russian folk song, "Behind the Fog." That song was played for Endeavour crewmember
	Russian cosmonaut Yuri Lonchakov.
4/27/2001	"Buckaroo," sung by Don Cain of Dubuque, Iowa, father of STS-100 Ascent and Entry Flight
	Director Leroy Cain.
4/28/2001	"Dangerous," sung by C'est Cheese, played for Canadian Astronaut Chris Hadfield at the request of his wife.
4/29/2001	"Miles from Nowhere," performed by Cat Stevens and played for Ashby in anticipation of
	today's undocking.
4/30/2001	Soundtrack to the movie "Gladiator" (5:41 GMT)
4/30/2001	"Big Arm on His Ship" - Robinson, etc.
5/1/2001	"True" performed by Spandau Ballet. The wakeup music was for Rominger, requested by his
	family

 $family. \\ http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-100/html/ndxpage1.html$

STS-104 July 12 – July 24, 2001

7/12/2001	"Wallace Courts Murron" - from the soundtrack to the movie "Braveheart." The song, by
	James Horner, was played for Atlantis Pilot Charlie Hobaugh.
7/13/2001	"God of Wonders" by Caedmon's Call
7/14/2001	"Space Cowboy" by N'Sync for Mission Specialist Janet Kavandi.
7/15/2001	"No Woman, No Cry" by Bob Marley for Mission Specialist Mike Gernhardt.
7/16/2001	"Nobody Does it Better" by Carly Simon, from the soundtrack to the movie "The Spy Who
	Loved Me" for Mission Specialist Jim Reilly.
7/17/2001	"Happy Birthday, Darlin'" by Conway Twitty for Atlantis Mission Specialist Janet Kavandi
	who was celebrating a birthday.
7/18/2001	"All I Wanna Do" by Sheryl Crow for the entire crew from their training team.
7/19/2001	"A Time to Dance" by Janet Giroux played by the Space Center Intermediate School
	Symphonic Band. The band was directed by Giroux and the song was played for Reilly.
7/20/2001	"I Could Write a Book" by Harry Connick Jr., from the soundtrack to the movie "When Harry
	Met Sally" for Lindsey.
7/21/2001	"Who Let the Dogs Out?" by the Baha Men for Hobaugh.
7/22/2001	"Orinoco Flow" by Enya for Mike Gernhardt.
7/23/2001	"Honey, I'm Home" by Shania Twain for Kavandi.
7/24/2001	"Hold Back the Rain" by Duran Duran
http://spaceflight	t.nasa.gov/gallery/audio/shuttle/sts-104/html/ndxpage1.html

STS-105 August 10 – 22, 2001

8/11/2001	"Back in the Saddle Again" by Gene Autry. It was played for Culbertson, making his third	
	flight into space, eight years after he last flew.	
8/12/2001	"The White Eagle," a traditional Russian folk song played for Expedition Three Pilot	
	Vladimir Dezhurov.	
8/13/2001	Overture from "The Barber of Seville" by Rossini, a tribute to Expedition Three Flight	
	Engineer Mikhail Tyurin.	
8/14/2001	Theme from the movie, "Arthur" or "Arthur's Theme (Best That You Can Do)" by	
	Christopher Cross.	
8/15/2001	"Big Boy Toys", a country and western tune by Aaron Tippin, selected for Pilot Rick	
	Sturckow by his wife.	
8/16/2001	"The Marvelous Toy" by Tom Paxton for Mission Specialist Dan Barry from his wife.	
8/17/2001	"Time Bomb", a song performed for Forrester by his sons, Patrick and Andrew.	
8/18/2001	"Hotel California," performed by the Eagles. It was requested for Expedition Two	
	Commander Yury Usachev by his wife.	
8/19/2001	"Under the Boardwalk" by the Drifters, played for Jim Voss by his wife Suzan.	
8/20/2001	"Brand New Day," played by Sting. The song was for Helms, requested by her family and	
	friends.	
8/21/2001	"East Bound and Down" by Jerry Reed, at the request of their Houston-based training team.	
8/22/2001	"Again" by Lenny Kravitz	
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http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-105/html/ndxpage1.html

STS-108 December 5 - 17, 2001

12/6/2001	"Soul Spirit" and "Put a Little Love in Your Life," sung by Bursch's daughter and her
	second-grade classmates.
12/7/2001	"God of Wonders" performed by 95:1, a worship band from St. Thomas Episcopal Church.
	Commander Dom Gorie's daughter Kim sings.
12/8/2001	"Wade Into the Water" performed by Clear Creek Mighty Wildcat Marching Band. Mission
	Specialist Carl Walz's son Aaron plays percussion.
12/9/2001	"It's A Grand Ol' Flag" performed by the Fire Department of New York Emerald Society Pipes
	& Drums. A New York firefighter presented Pilot Mark Kelly with today's wakeup music
	when Kelly visited the World Trade Center site with former NASA Administrator Dan Goldin
	shortly after the September 11 attacks.
12/10/2001	"Jumpin' at the Woodside," performed by Mission Specialist Linda Godwin's own band,
	Brass, Rhythm and Reeds composed mostly of NASA and NASA contractor personnel.
	Godwin plays tenor sax in this 18-piece big band recording.
12/11/2001	"Let There Be Peace on Earth," performed by Vince and Jenny Gill from the Vince Gill album
	"Let There be Peace on Earth" awakened Endeavour's crew this morning at 6:19 a.m. CST.
	The song was played for Expedition Three Commander Frank Culbertson from his wife for
	his years of dedicated pursuit of peace on Earth through service to his country, and in tribute
	to a special anniversary today.
12/12/2001	"Fly Me to the Moon", sung by Oliver "Ollie" O'Regin for Dan Tani.
12/13/2001	"Here Comes the Sun", in memory of former Beatle George Harrison, who recently died of
	cancer. The instrumental was from the IMAX movie, "Everest". The song was played for the
	Expedition Three Crewmembers, Commander Frank Culbertson, Pilot Vladimir Dezhurov
	and Flight Engineer Mikhail Tyurin.
12/14/2001	Traditional Russian song, "My Sweetheart," played for Onufrienko, Dezhurov and Tyurin.
	The Expedition Four crew was awakened about a half-hour later with a wakeup tone on board
	the station.
12/15/2001	"Where I Come From," by Alan Jackson, for Pilot Mark Kelly from his family.
12/16/2001	"I'll Be Home For Christmas," sung by Bing Crosby.
12/17/2001	"Please Come Home For Christmas" sung by Jon Bon Jovi.
http://spaceflight.na	asa.gov/gallery/audio/shuttle/sts-108/html/ndxpage1.html

STS-109	March 1-12	, 2001
3/1/20	02	"Blue

•	IVIAICII I-I.	2, 2001
	3/1/2002	"Blue Telescope" - John Hiatt
	3/2/2002	"Theme from Mission: Impossible"
	3/3/2002	Mozart's "Five Variations on Twinkle, Twinkle Little Star" performed by Jeno Jando
	3/4/2002	The children's song "Floating in the Bathtub," by Tonya Evetts Weimer. It was played for Jim Newman.
	3/5/2002	"Carmen Ohio," performed by the Ohio State University marching band and played for Ohio State alumni Nancy Currie and Rick Linnehan aboard Columbia.
	3/6/2002	The original song "Sittin on Top of the World," Les Paul and Mary Ford. Dedication following was recorded the week before for the STS-109 crew by Les Paul, a music pioneer and space enthusiast.
	3/7/2002	The Mission Impossible: II theme song, performed by Limp Bizkit.
	3/8/2002	"Who Made Who" by AC DC. The song was played for pilot Duane Carey.
	3/9/2002	"Fly Me to the Moon" by Frank Sinatra. The song was played for Commander Scott "Scooter" Altman.
	3/10/2002	"Floating" by the Moody Blues dedicated to first-time fliers, pilot "Digger" and spacewalker Massimino.
	3/11/2002	"Countdown" Rush

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-109/html/ndxpage1.html

STS-110 April 8-22, 2002

4/9/2002	"The Best Years of Our Lives" by the Baha Men.
4/10/2002	"Rapunzel Got a Mohawk," performed by Joe Scruggs. The song was played for Ochoa, at
	the request of her family.
4/11/2002	University of California-Berkeley fight song performed by the school band
	and "All Right Now," performed by the Stanford University band. Ochoa
	requested the songs be played for crewmates Walheim and Smith who
	attended the rival schools. Ochoa's also a Stanford graduate. PC
4/12/2002	"Testify to Love," by Wynonna Judd played for Bloomfield from his family.
4/13/2002	"Voodoo Chile," by Jimi Hendrix. It was played for Morin, who will be making his first
	spacewalk, at the request of his wife.
4/14/2002	"All Star," performed by Smash Mouth from the Shrek movie soundtrack. The song was
	played for Walheim by his family.
4/15/2002	"Magic Carpet Ride" by Steppenwolf, dedicated to Smith.
4/16/2002	"I Am an American," performed by the Purdue University Marching band. It was dedicated to
	Purdue graduate Ross.
4/17/2002	"Noah," performed by Steve Frick when he was a teen-ager.
4/18/2002	"Somewhere Over the Rainbow" - STS-110 Commander Mike Bloomfield's daughter,
	Courtney.
4/19/2002	"Message in a Bottle," by The Police.
http://spaceflight.na	sa.gov/gallery/audio/shuttle/sts-110/html/ndxpage1.html

STS-111 June 5 -19, 2002

6/6/2002	"Gettin' Jiggy Wit It," by Will Smith. The song was played for Valery Korzun, who will soon take command of the space station.
6/7/2002	"American Woman," by Lenny Kravitz, a song selected for Peggy Whitson.
6/8/2002	"I Have a Dream," by ABBA, a song selected for Sergei Treschev.
6/9/2002	"Drops of Jupiter" by Train, a tune selected for Ken Cockrell.
6/10/2002	"I Only Have Eyes for You" by the Flamingos, from the American Graffiti
	soundtrack which was selected for Paul Lockhart. Selected by his wife
	Mary. The two danced to the song at their wedding. PC
6/11/2002	"Mi PC" by Juan Luis Guerra, selected for Chang-Díaz by his family.
6/12/2002	"Chasing Sheep is Best Left to Shepherds," by Peter Greenaway, selected for Philippe Perrin
	by his family.
6/13/2002	"On the Road Again," by Willie Nelson, selected for Carl Walz by his family.
6/14/2002	"The Star Spangled Banner" in honor of Flag Day.
6/15/2002	"Hello to All the Children of the World" prepared by Expedition Four Flight Engineer Dan
	Bursch's son and his classmates.
6/16/2002	"Where My Heart Will Take Me," the theme song from TV series, "Star Trek: Enterprise,"
	performed by Russell Watson. (see STS-114, Flight Day 8/2/2005)
6/17/2002	"The Eyes of Texas," performed by the University of Texas Marching Band. Cockrell and
	Lockhart hold degrees from that university.
6/18/2002	"Sojourner" by Matt Gast, the flight's lead timeliner or scheduler of crew activities.
6/19/2002	"I Got You Babe"by Sonny and Cher from the "Groundhog Day" movie soundtrack.
	"Groundhog Day's "I Got You Babe" is a recurring theme for wakeup calls
	on missions which have been extended an additional two days, with the
	astronauts having to repeat their deorbit activities each day only to be told
	that because of bad weather they're going to go through the same tasks
	again the next day. For commander Ken Cockrell this was his third mission
	in a row where he's stayed in orbit for an additional two days in the hopes
	of good weather in Florida. On STS-80 the landing finally cooperated and
	he landed in Florida, for STS-98 and STS-111 he landed at the alternate
	site in California. PC

STS-112 October 7-18, 2002

10/8/2002	"Venus and Mars" by Paul McCartney and Wings. It was for David Wolf, requested by his wife, Tammy.
10/9/2002	"The Best" by Tina Turner for Commander Jeff Ashby from his wife, Paige.
10/10/2002	The "medley of childhood songs" including "(Theme from) The Monkees" - The Monkees, "Rocket Man" - Elton John, "Space Oddity" - David Bowie and "I Am Woman" - Helen
	Reddy was played for Sandra Magnus from her family.
10/11/2002	"Oh Thou Tupelo," performed by the Wellesley College Choir, was for Pamela Melroy, a
	1983 graduate.
10/12/2002	"Push It," performed by the group Garbage. It was for Piers Sellers, requested by his family.
10/13/2002	The "Aviation March," composed by Isaac Dunaevsky, is the hymn of the Moscow Aviation
	Institute, Yurchikhin's alma mater.
10/14/2002	"You Gave Me The Answer," by Paul McCartney and Wings for Dave Wolf from his wife
	Tammy.
10/15/2002	"Only an Ocean Away," performed by Sarah Brightman. It was requested for Sandy Magnus
	by her jogging friends.
10/16/2002	"Prime Time"by The Alan Parsons Project was played for Pilot Pam Melroy, requested by her
	husband, Chris.
10/17/2002	"These are the Days" performed by 10,000 Maniacs was played for Sellers at the request of
	his wife.
10/18/2002	"Someday Soon," performed by Suzy Bogguss. It was for Ashby, requested by his wife.
http://spaceflight.nasa	a.gov/gallery/audio/shuttle/sts-112/html/ndxpage1.html

STS-113 November 23 – December 7, 2002

11/24/2002	The Wind Ensemble Music for Wetherbee, provided by his daughter
11/25/2002	"I Need You Like a Hole in My Head" by Sting
11/26/2002	"Gimme All Your Lovin" by ZZ Top
11/27/2002	"Copperhead Road" by Steve Earle
11/28/2002 11/29/2002	"Figaro's Wedding" from the movie "Trading Places"
11/30/2002	"Quiet Flame" by Leap Year "Walkin' on Sunshine" by Kylie Minogue Selected by Paul
11/30/2002	Lockhart's daughters. Capcom Joan Higgenbotham radioed up the music
	and said "Good morning Endeavour. Welcome to EVA (Spacewalk) 3 day.
	We're looking forward to some more incredible views provided courtesy of
	our two spacewalkers. Paco (Lockhart's nickname), this morning's wakeup
	music is 'Walking on Sunshine' which is what Mary and the girls will be
	doing once your safely back home."
	"Good morning Miss Joanie and to everyone down there in mission control.
	It's great to hear your voice this morning," Lockhart replied. "Walking on
	sunshine? I think that's what John (Herrington) and Mike (Lopez-Alegria)
	are going to be doing for several hours today I'd like to say thank you to
	my wife and my daughters for thinking about me the last few days and I'm
	looking forward to seeing them too." PC
12/1/2002	"Roll With It" by Steve Winwood
12/2/2002	"Cheesty Proody" (phonetic spelling), which means "Clear Ponds" in Russian, by Igor Talkov
12/3/2002	"Flot" (phonetic spelling), which means "Raft" in Russian, by Yuri Loza
12/4/2002	"Aserejé," also known as "The Ketchup Song (Hey Hah)," by Las Ketchup
12/5/2002	"Hotel California" by The Eagles
12/6/2002	Clips from the movie "Groundhog Day" ("I Got You Babe") and the television game show "Jeopardy"
	The "Groundhog Day" was a reference to the multiple landing
	attempts. At this point STS-113 tied the previous record of two
	additional extensions waiting for good weather. With the additional
	day beyond that, they set a new record for the number of landing
	tries. The Jeopardy theme music was a running gag between Mike
	Lopez-Alegria and the Capcoms where he would pose various questions
	about the mission's status as quizzes. At one point the Capcom
	answered one of L-A's queries, and he replied "But you forgot to phrase it in the form of a question."
	The evening before when MCC said goodnight a Capcom cautioned "the
	wakeup music may sound familiar." Wetherbee replied "How will we
	know?"
	(a reference to the repeating cycle in the movie "Groundhog Day". PC
12/7/2002	"I'll Be Home for Christmas" by Perry Como
	asa.gov/gallery/audio/shuttle/sts-113/html/ndxpage1.html
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CTC 105	T 16	F. L. 1 2002
STS-107		February 1, 2003
		wo shifts around the clock but Mission Control sent wakeup calls anyway.
1/16/2	003	Blue Team - "EMA EMA" Dedicated to Dave Brown. PC
		Red Team - "America, the Beautiful" by the Texas Elementary Honors Choir, with Rick
1/17/0	002	Husband's daughter, Laura
1/17/2	003	Blue Team - "Coming Back to Life" by Pink Floyd. <i>Dedicated to Willie</i>
		McCool. PC
1/10/0	002	Red Team - "Space Truckin" by Deep Purple. <i>Dedicated to Kalpana Chawla</i> . PC
1/18/2	003	Blue Team - "Cultural Exchange" Dedicated to Dave Brown. PC
1/19/2	003	Red Team - "Hatishma Koli" by Hachalonot Hgvohim. <i>Dedicated to Ilan Ramon</i> . PC Blue Team - "Fake Plastic Trees" by Radiohead. <i>Dedicated to Willie</i>
1,17,2		McCool. PC
		Red Team - "Amazing Grace" by Black Watch and 51 Band of Highland Brigade.
		Dedicated to Laurel Clark - The same song on bagpipes was played at her
		wedding, for the wakeup in space, and at her funeral. PC
1/20/2	003	Blue Team - "Texan 60" Dedicated to Dave Brown. PC
		Red Team - "God of Wonders" by Steve Green. Dedicated to Rick Husband. PC
1/21/2	003	Blue Team - "The Wedding Song" by Paul Stookey for Pilot Willie McCool
		Red Team - "Prabhati" by Ravi Shankar. Dedicated to Kalpana Chawla. PC
1/22/2	003	Blue Team - "Hakuna Matata" by The Baha Men for Anderson from his
		two kids.
		From the movie "Lion King" PC
		Red Team - "Ma ata osheh kesheata kam baboker?" by Arik Einstein.
		Dedicated to Ilan Ramon. PC
1/23/2	003	Blue Team - "Burning Down the House" by Talking Heads in honor of combustion
		experiments on this flight
		Red Team - "Kung Fu Fighting" by Carl Douglas.
		The crew had a stuffed hamster toy which played that song. It was their
1/24/2	002	'mascot' and they took it everywhere during their training. PC
1/24/2	003	Blue Team - "Hotel California" performed by Pilot William McCool's
		family (Josie McCool, Shawn McCool)
		The family members were Sean McCool on the guitar, his former girlfriend
		(but still friend) Josee Julian, and Josee's father Frank also on guitar.
		(Reference - an email to me from Lani McCool) PC Red Team - "The Prayer" by Celine Dion. Dedicated to Rick Husband. PC
1/25/2	003	Blue Team - "I Say a Little Prayer" by Dionne Warwick played for Anderson from his wife
1/23/2	003	Red Team - "Drops of Jupiter" by Train. <i>Dedicated to Kalpana Chawla</i> . PC
1/26/2	003	Blue Team - "When Day is Done" by Django Reinhardt and Stephane
1/20/2	003	Grappelli. Dedicated to Dave Brown. Capcom Charlie Hobaugh said,
		"We're doing great down here, and I feel cultured." Dave replied, "It's
		about time." PC
		Red Team - "Love of My Life" by Queen. <i>Dedicated to Ilan Ramon</i> .
		A videotape of the wakeup activities survived the accident. PC
1/27/2	003	Blue Team - "Slow Boat to Rio" by Earl Klugh. Dedicated to Mike Anderson. PC
		Red Team - "Running to the Light" by Runrig. Dedicated to Laurel Clark PC
1/28/2	003	Blue Team - "I Get Around" by The Beach Boys. Dedicated to Dave Brown. PC
		Red Team - "Up on the Roof" by James Taylor. Dedicated to Rick Husband. PC
1/29/2	003	Blue Team - "Imagine" by John Lennon. McCool and Ramon said their
		observations from orbit reveal no borders on the Earth below and
		reiterated in both English and Hebrew their hopes for peace in the world.
		Dedicated to Willie McCool. PC
		Red Team - "Yaar ko hamne ja ba ja dekha" by Abita Parveen.
		Dedicated to Kalpana Chawla. A videotape of the crew activities during
		this wakeup call survived the accident. PC
1/30/2	003	Blue Team - "Silver Inches" by Enya. Dedicated to Dave Brown. PC
		Red Team - "Shalom lach eretz nehederet" by Yehoram Gaon.

Dedicated to Ilan Ramon - The tune is the same as Arlo Guthrie's "City of New Orleans." Ilan said, "Good morning, Stephanie, it was wonderful to hear your voice in Hebrew. It was perfect timing while we flew over Israel to hear this song, which says I've been to the

North Pole and to everywhere but there's no place better than Israel." PC

Blue Team - "If You've Been Delivered" by Kirk Franklin. Dedicated to Mike Anderson. PC 1/31/2003 Red Team - "Scotland the Brave" by The Black Watch and the band of the 51st Highland Brigade. *Dedicated to Laurel Clark* PC

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-107/html/ndxpage1.html

http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-114/html/ndxpage1.html

STS-114 July 26 – August 9, 2005

7/26/2005	Excerpts from the movie "Groundhog Day" (including the repeating "I Got You Babe" by Sonny and Cher) which was for the entire crew to commemorate its first day out of
	quarantine.
7/27/2005	"What a Wonderful World" by Louis Armstrong. The Station crew was awakened at the same time by a tone onboard.
7/28/2005	"Vertigo" by U2 played for Pilot Jim Kelly. Capcom Shannon Lucid noted during the wakeup call that Kelly, whose nickname is "Vegas," was promoted to Colonel in the U.S. Air Force recently. The Station crew was awakened at 11:09 p.m. CDT by a tone onboard.
7/29/2005	"Sanpo," performed by the chorus from the Japanese School of Houston. It is made up of a group of children, including Noguchi's. The Station crew was awakened at 11:09 p.m. CDT by a tone onboard.
7/30/2005	"I'm Goin' Up" by Claire Lynch for Mission Specialist Wendy Lawrence. The Space Station crew was awakened about the same time by a tone onboard.
7/31/2005	"Walk of Life" by Dire Straits for Steve Robinson. The Space Station crew was awakened at 10:39 p.m. CDT by a tone onboard.
8/1/2005	"Big Rock Candy Mountain" by Harry McClintock for Mission Specialist Andy Thomas.
8/2/2005	"Where My Heart Will Take Me," the theme song from "Star Trek: Enterprise." This song,
8/2/2003	
	was selected for the crew as a surprise dedication from the Deputy Shuttle Program Manager
	Wayne Hale. (This selection was identified as composed by Dennis McCarthy in STS-114
	MCC Status Report #16. Though McCarthy did write the orchestral suites for the "Star Trek"
	TV series he did not write this. It was written by Diane Warren originally as "Faith of the
	Heart" for the soundtrack of the film, "Patch Adams" and sung by Rod Stewart. Then,
	virtually the identical song was renamed and used as the theme for "Enterprise" this time
	sung by British tenor, Russell Watson - CAF)
8/3/2005	"Amarillo by Morning" by George Strait. Expedition 11 crew of Commander Sergei Krikalev
	and Flight Engineer and NASA ISS Science Officer John Phillips, woke up 30 minutes later.
	"Amarillo By Morning" was dedicated not to the crew in space, but to the
	Columbia STS-107 crew commanded by Amarillo Native Rick Husband.
	The day included a dedication to the Columbia crew and other space
	explorers who died during their missions. When the wakeup was sent it was
	Husband's son, Matthew's birthday. PC
8/4/2005	"Anchors Aweigh" dedicated to Mission Specialist Wendy Lawrence at the request of
	Commander Eileen Collins. Space Station Expedition 11 crewmates John Phillips and Sergei
	Krikalev woke 30 minutes later.
8/5/2005	"The Air Force Song" dedicated to Pilot Jim Kelly, a colonel in the U.S. Air Force, at the
	request of Commander Eileen Collins. Space Station Expedition 11 crewmates John Phillips
	and Sergei Krikalev woke 30 minutes later.
8/6/2005	"The One and Only Flower in the World" sung by the Japanese group SMAP. It was played
	for Mission Specialist Soichi Noguchi of the Japan Aerospace Exploration Agency (JAXA).
8/7/2005	"Come On Eileen" by Dexy's Midnight Runners. It was played for Discovery's Commander
	Eileen Collins from the Mission Control Team.
8/8/2005	"Good Day Sunshine" by The Beatles.
1.44//	

INTERNATIONAL SPACE STATION (ISS)

...only a shuttle crew receives wake up music while a space station crew uses an alarm clock.

From: http://spaceflight.nasa.gov/living/spacesleep/index.html

"Crew members will be allowed to take a certain amount of personal gear up with them," said Lu. "So things like checkers or chess sets, CDs and tape players, and the like are allowed. You can listen to your favorite music if you like. DVD movies will also be available for viewing."

Edward Lu

From: http://www.science.nasa.gov/headlines/y2000/ast29nov 1.htm

The station's Russian-built crew quarters is outfitted with only two small "staterooms." About the size of broom closets, the so-called "kayudas" feature porthole windows that face Earth.

The temporary sleep station is a hollow lab rack outfitted with a ventilation system, radiation protection,

The temporary steep station is a hollow lab rack outfitted with a ventilation system, radiation protect lights and electrical outlets for laptop computers or CD and DVD players.

From: "Moving Van Mounted to Station, Change of Command Underway" By Todd Halvorson, August 13, 2001 *Space.com*

And we actually can listen to music. We have speakers in the – in the service module, and also in the node where we can listen to whatever tunes we would like to listen to, and we also have a little CD players, private ones, that we can listen to with headphones in our little cabins...

Carl Walz

Interview of Dan Bursch, Yury Onufrienko, and Carl Walz, Astronauts Leon Harris, Miles O'Brien January 3, 2002 *CNN: Live This Morning*

February 2, 2002 – Elvis, also known as Carl Walz, treated the teachers to a new version of "Heartbreak Hotel" during a live videoconference between teachers attending ISSEC and the Expedition Four Crew during ISS Educator Conference at Space Center Houston. "Well since I left my baby; I found a new place to dwell. It's 400 kilometers in the air. It's called space station Alpha. But baby it's lonely. Oh, it's so lonely. But I'll be back in May. Ohhhhhhh, yeah."

http://www.greenbush.org/MSSWeb/Stargazer7.htm

It turns out that music plays a big role. You know, of course, we have, CDs that we play when we work out, when we ride the bikes and exercise, or just to have on while we're living in space and of course we also brought along some musical instruments. It so happens that I have a small keyboard up here...And, so I can play that as well here, and we also have a guitar as well, so I've been learning how to play the guitar. I play the keyboard back home but the guitar is a new thing that I've picked up here in my free time.

Carl Walz from *E-Town* radio show broadcast May 9, 2002 – "ISS Interview"

Astronaut Ellen Ochoa, a classical musician, brought her flute as one of her personal items on her first shuttle flight. She only got to play it once, though, and that was as part of an educational video for school kids. On short shuttle flights, she explains, astronauts are so busy that they really don't have much time to play an instrument. "For a shuttle flight, it's probably more of a sentimental thing, a memento for people who have had music as a serious hobby."

But on long duration stints onboard the station, "you do have a fair amount of free time," says Walz, "especially on Sundays." There's more opportunity to take out an instrument and play.

"It's a link to home," says Walz, who plays for his hometown church, sings in the astronaut band, is known for his Elvis imitations, and, during his time on station not only played the keyboard, but also found the time to teach himself some guitar. Walz thinks that link is important. "Some guys might disagree, and say, 'well, you know, you want to cut all those links.' But I prefer to have them." No matter how long an astronaut remains in space, he says, "we all know we're going back to Earth. We know we're going back to that life..."

"In long duration," says Ochoa, "you want to prepare yourself for being away a long time. One of the things you want to do is to carry on with activities that are important to you on the ground. A lot of those, you can't. But whenever you can--and playing a musical instrument is an example -- people sure like to do that."

"The strangest thing about playing music in space," says Carl Walz, "is that it's not strange. In most homes, there's a musical instrument or two. And I think it's fitting that in a home in space you have musical instruments as well. It's natural."

"Music makes it seem less like a space ship, and more like a home."

"Space Station Music" http://science.nasa.gov/headlines/y2003/04sep_music.htm

"We have a small piano up here. It's an electronic piano, and I like to play the piano in my spare time," Lu explained to the 124 space campers at Space Center Turkey in Izmir during a July 14 contact arranged as part of the Amateur Radio on the International Space Station program.

"Ed Lu is "The Piano Man" Aboard the ISS "

http://www.arrl.org/news/stories/2003/07/23/1/?nc=1 July 23, 2003

This Sunday, the Expedition 12 crew aboard the international space station received a special treat -- a live musical wakeup call from Paul McCartney during a first-ever concert linkup. The wakeup call, during which McCartney performed "Good Day Sunshine" and "English Tea," came from McCartney's "US" Tour performance at the Anaheim, Calif., Arrowhead Pond. It was broadcast live on NASA TV.

NASA News 11/13/05

ANAHEIM, Calif. -- It was "Good Day Sunshine" for the international space station crew Sunday morning. NASA astronaut Bill McArthur and Russian cosmonaut Valery Tokarev were treated to a live wake-up call of the Beatles classic in a first-ever concert linkup to the space station.

On Earth, former Beatle Sir Paul McCartney performed the hit and another song, "English Tea," on Saturday night before a cheering crowd as part of his 11-week "US" tour.

The performance was beamed from the West Coast to the space station crew 220 miles above Earth and broadcast on NASA television, which showed live feeds from space.

McArthur and Tokarev bobbed up and down and sipped from squeeze pouches through the show, getting a rousing cheer from the audience.

"I can't believe that we're actually transmitting to space!" McCartney said. "This is sensational. I love it." McArthur, who did a couple flips, noted McCartney's creative achievements and thanked him for playing the songs.

"That was simply magnificent," McArthur said. "We consider you an explorer just as we are." It is a tradition to wake astronauts up with recorded songs, but this marked the first time astronauts listened to live music from space.

The rock icon came up with the idea after learning that NASA's Mission Control used "Good Day Sunshine" to wake up the Space Shuttle Discovery astronauts in August with word that conditions were favorable to return to Earth.

The wake-up call marked the space station crew's 44th day of a planned six month mission in space.

Paul McCartney Sings to Space Station Crew

The Associated Press Sunday, November 13, 2005

MARS PATHFINDER & SOJOURNER ROVER

Sol

- 4 "The Final Frontier" Paul Reiser, Don Was (Theme from "Mad About You")
- The team sent their "wakeup call" to Mars as a joke (it's not like a spacecraft would need music) and the team enjoyed it enough that it became a tradition. The "Mad About You" production office was surprised by the choice and put out a press release noting the unusual use for their theme song. They even used a clip of the Mars team playing the music in the end credits of one of their shows. PC
- 5 "Three Little Birds" Bob Marley
- 6 "In the Mood" Glenn Miller (with live accompaniment by Chief Engineer Rob Manning)
- 8 "Coisinha Do Pai" Brazilian Samba
- 12 "You've Got a Friend" Randy Newman
- 13 "Follow You, Follow Me" Genesis
- 14 "Also Sprach Zarathrustra" Richard Strauss (Theme from "2001: A Space Odyssey")
- 17 "Roll to Me" Del Amitri
- 18 "Let the Good Times Roll" Ray Charles
- 19 "So Far Away" Dire Straits
- 20 "Life in the Fast Lane" Eagles
- 21 "Ride of the Valkyries" Richard Wagner
- 22 "Wild, Wild Life" Talking Heads
- 23 "Theme from Rawhide" Blues Brothers
- 24 "Radar Love" Golden Earring
- 25 "Wise Up" Bim Skala Bim
- 26 "Dreams" Van Halen
- 27 "I'll Be There For You" Rembrandts (Theme from "Friends")
- 28 "Long Distance" Kinks
- 29 "Learning to Fly" Pink Floyd
- 30 "The Way You Look Tonight" Frank Sinatra "Fantastic, That's You" Louis Armstrong
- 32 "Love Me Like a Rock" Paul Simon
- 33 "You've Made Me So Very Happy" Blood, Sweat and Tears
- 34 "Let Your Fingers Do the Walking" Sort Sol
- 35 "The World is Waiting for the Sunrise" Gene Lockhart (father of June Lockhart of "Lost in Space")
- 36 "Obscured By Clouds" Pink Floyd
- 37 "Where the Streets Have No Name" U2
- 39 "Mars Rovin" Tempus Fugit and the Time Travellers

MARS SPIRIT AND OPPORTUNITY

The function of the Wake-Up Music is as it would suggest, to 'wake-up' the mission team and get them focused on the days activities. As we will see the selection is often a little bit tongue-in-cheek. The music was originally played for the team around the time that the "sweep" was transmitted to the Rover shortly after it woke up. This sweeps the transmit frequency so the Rover's receiver can lock onto it. This occurs at around 8.45AM local time (at the landing site). However this meant the song was being played before many of the team members came-in, so the time was subsequently shifted to 10AM local time. By this time most of the crew are on station and ready to begin the Sol's activities. Sol is the term for a Martian 'Day'. One Martian Sol is 39.5 minutes longer than one Earth Day.

The song (sometimes songs) for each Sol are typically chosen by the Mission Managers, in the case of Spirit this is Dr. Mark Adler. The songs are chosen for a link they have with the planned activities for the day.

NASA Gets Into the Groove! From Above Top Secret News Network, February 21, 2004

The eclectic playlist is Mars rover Spirit mission manager Mark Adler's way of waking exhausted engineers and scientists who are working and sleeping on Mars time and dealing with a sometimes temperamental rover millions of miles away... Below is the Spirit playlist, along with some explanations by Adler for why the songs were chosen. A sol is a Martian day, slightly longer than a day on Earth at 24 hours, 37 minutes. From: Mars Rocks! Eclectic Music Moves Rover Mission. By Robert Roy Britt February 26, 2004, Space.com and Jet Propulsion Laboratory Rover Daily Updates.

Spirit's playlist:

- Sol 2: Good Morning, Good Morning, by the Beatles.
- Sol 3: Oh What a Beautiful Mornin', by Rodgers and Hammerstein.
- Sol 4: Hail to the Chief, by the Mormon Tabernacle Choir. (Presidential phone call.)
- Sol 5: Satisfaction, by the Rolling Stones. ("I can't get no ...", Air bags not cooperating.)
- Sol 6: Get Up, Stand Up, by Bob Marley. (Lift mechanism actuated.)
- Sol 7: Da Da Da, by Casaca. (Brazilian song suggested by investigator from Brazil, RRGTM student that week from Brazil.)
- Sol 8: Soak Up the Sun, by Cheryl Crow. (Laid-back sol.)
- Sol 9: I Can See Clearly Now, by Jimmy Cliff. (Picture taking sol.)
- Sol 10: Unchained, by Van Halen; Hit the Road Jack, by Buster Poindexter; Turn, Turn, Turn, by the Byrds. (Cable-cutting, backup on landing deck. start turn on deck.)
- Sol 11: I Get Around, by the Beach Boys; Round and Round, by Ratt; You Spin Me 'Round, by Thalía. (Rest of turn on landing deck.)
- Sol 12: Born to be Wild, by Steppenwolf; Rawhide, by Riders in the Sky; Who Let The Dogs Out?, by the Baha Men. (Egress.)
- Sol 13: Reach Out, by the Four Tops. (First robotic arm activity.)
- Sol 14: You've Got The Magic Touch, by the Platters. (Touching robotic arm down on Mars.)
- Sol 15: If You Love Somebody Set Them Free, by Sting; Roam, by The B-52's; Good Times Roll, by The Cars. (Last engineering activities, first drive on the surface.)
- Sol 16: After Midnight, by Eric Clapton; Trash Day, by Weird Al Yankovic. (Crew starts Mars day after California midnight, part of the sol dedicated to deleting contents of flash.)
- Sol 17: We Will Rock You, by Queen. (First arm activities and observations on a rock.)
- Sol 18: Sledgehammer, by Peter Gabriel. (Intended first [Rock Abrasion Tool] RAT sol, though ran into problems later, to put it mildly.)
- Sol 19: S.O.S., by Abba. (Objective was to regain contact with Spirit after a loss of communications. We did.)
- Sol 20: Baby, Talk to Me, from the musical Bye Bye Birdie. (Objective was to get Spirit to send data. She did.)
- Sol 21: Satellite, by The Hooters. (A rousing lullaby for when we were trying, and succeeded, to get the rover to go to sleep.)

- Sol 22: We Can Work it Out, by The Beatles. (Beginning debugging activities to get Spirit back to normal.)
- Sol 23: Start Me Up, by the Rolling Stones. (Booting in crippled mode.)
- Sol 24: Flash, by Queen. (Clearly a flash problem, continuing to debug.)
- Sol 25: (You're The) Devil In Disguise, by Elvis Presley, and With a Little Help From My Friends, by The Beatles. (Continuing debug, got picture!)
- Sol 26: I Want a New Drug, by Huey Lewis & The News. (Trying yet another recipe for getting task trace, still didn't work.)
- Sol 27: Anticipation, by Carly Simon. (Seeing if the file deletes will do the trick or not. They did.)
- Sol 28: On the Road Again, by Willie Nelson. ("Can't wait to get back on ...", back to normal use of the flash file system, itching to get going.)
- Sol 29: Here Comes the Sun, by The Beatles. (More normal operations, Mars Express coordinated overflight.)
- Sol 30: Lean On Me, performed by Club Nouveau. (Intended RAT brush sol, pressing RAT on rock, though activities did not complete.)
- Sol 31: I Wanna Be Sedated, by the Ramones. (Very low activity sol to get the rover rested and ready for surgery on the following sol.)
- Sol 32: Wipe Out, by The Surfaris, and We're Not Gonna Take It, by Twisted Sister. (File system reformat.)
- Sol 33: Back In the Saddle Again, by Gene Autry, and The Star Spangled Banner, performed by Beyoncé. (Back to normal operations, color flag picture on RAT.)
- Sol 34: The Laundry Cycle: Pounded on a Rock, by The Bobs, and Bump N' Grind, by R. Kelly. (First RAT grinding.)
- Sol 35: Up Around the Bend, by Credence Clearwater Revival. (Intended drive around lander to begin drive to crater. Didn't get anywhere though.)
- Sol 36: Stuck On You, by Elvis Presley. (Drive didn't work yestersol -- we've been stuck here for weeks. Drive did work later that sol.)
- Sol 37: Proud Mary, performed by Tina Turner. ("And we're rolling, rolling, rolling on the river ...", first long drive, ended up being more than 20 meters.)
- Sol 38: Runnin' With the Devil, by Van Halen. (HGA [High Gain Antenna] problem that sol, no activities, song played late in the sol.)
- Sol 39: Hit the Road Jack, by Buster Poindexter. (Another long drive -- yes, this is a reuse of that song.)
- Sol 40: What a Wonderful World, by Louis Armstrong, (Mars, that is.)
- Sol 41: Open Road Song, by Eve 6. (Driving song, though only did several inches of driving to position in front of rock.)
- Sol 42: Lift Up Every Stone, by John Hiatt. (Observations of the rock "Mimi".)
- Sol 43: Livin' On a Prayer, by Bon Jovi. (Many sols tend to start with our fingers crossed.)
- Sol 44: Way Over Yonder, by Carole King. (Heading for that crater.)
- Sol 45: Touch Me in the Morning, by Diana Ross. (Touch and go sol.)
- Sol 46: Wake Up Little Susie, by The Everly Brothers. (Generic wakeup song.)
- Sol 47: Dig Down Deep, by Hot Soup. (Trenching sol.)
- Sol 48: Working in the Coal Mine, by Devo. (Working in the trench.)
- Sol 49: Coisinha Do Pai, by Beth Carvalho. (Brazilian song played on Mars Pathfinder, played again for Carnival weekend.)
- Sol 50: Samba De Marte, by Beth Carvalho. (Brazilian song written by same artist inspired by use of previous song on MPF, this one is a "Mars Samba", also for Carnival weekend. Starts off "Hello NASA!".)
- Sol 51: Chariots of Fire, by Vangelis. (Appropriate for slow-motion races.)
- Sol 52: Cold as Ice by Foreigner.
- Sol 53: Dust in the Wind by Kansas, with the anticipation of possibly capturing dust devils spinning across the Martian surface.
- Sol 54: Big Rock in the Road by Pete Wernick as it made its final approach to the imposing rock called "Humphrey."

Sol 55: Brush Your Teeth by Cathy Fink and Marcy Marxer, and Knock Three Times by Tony Orlando and Dawn.

Sol 56: Walking On Sunshine performed by Jump 5.

Sol 58: I Still Haven't Found What I'm Looking For" by U2 to pay homage to its twin rover's amazing findings of water evidence at Meridiani Planum.

Sol 59: One More Time by The Real McCoy.

Sol 60: Pictures to Prove It by the Mighty Mighty Bosstones.

Sol 61: Motor Away by Guided by Voices.

Sol 62: My First Trip to Mars," by Atticus Fault.

Sol 66: Livin' on the Edge by Aerosmith since Spirit is at the edge of Bonneville crater.

Sol 67: On Top of the World by the Carpenters. The song was fitting, as yestersols's drive put Spirit at the rim of "Bonneville" crater, but it took some additional maneuvering to get the rover perfectly placed for the 360-degree panoramic camera images it will take on upcoming sols. Sol 69: Watching the Wheels by John Lennon.

Sol 77: "One Step Closer" by the Doobie Brothers, since the rover was to make its final approach to the rock target named "Mazatzal" today.

Sol 80: "Open the Door" by Otis Redding.

Sol 81: "Boy from New York City" by The Manhattan Transfer, in honor of the grind on the New York target.

Sol 98: "Where Is My Mind?" by The Pixies in honor of its software transplant.

Sol 109: "(Take me) Riding in my Car" by Woody Guthrie.

Opportunity's playlist:

- Sol 2: So Happy Together, by the Turtles (First full sol with both rovers on Mars.)
- Sol 3: The Spirit of Radio, by Rush (HGA release.)
- Sol 4: n/a
- Sol 5: Stand, by REM; I'm Still Standing, by Elton John (Standup.)
- Sol 6: Lookin' Out My Back Door, by Creedence Clearwater (Revival.); Release Me, by Elvis Presley (Middle wheel release); Born to Run,
- by Bruce Springsteen (Wake up.)
- Sol 7: I'm Free, by The Who (Cable Cut #3); Going Mobile, by The Who (Egress.)
- Sol 8: You Ain't Seen Nothing Yet, by Bachman-Turner Overdrive (First dual surface nominal rover operation.)
- Sol 9: I'm Coiming Out, by Diana Ross (IDD release.)
- Sol 10: Pictures of You, by The Cure (First MI image.)
- Sol 11: Please Please Tell Me Know, by Depeche Mode (First MB data readout of soil.)
- Sol 12: I'm Leaving Here, by Motorhead (First drive since egress.)
- Sol 13: Little Honda (aka First Gear), by the Beach Boys (Jaunt away from lander.)
- Sol 14: Should I Stay or Should I Go, The Clash (We went.)
- Sol 15: The Flintstones Theme Song, end credits, Version 2 from 1962 (For the arrival at the "bedrock.")
- Sol 16: Slip Slidin' Away, by Paul Simon (Large slips along drive up to the outcrop.)
- Sol 17: Wake Me Up, by Wham (Touch and go.)
- Sol 18: Running Down a Dream, by Tom Petty and the Heartbreakers (Drive along the outcrop.)
- Sol 19: Here I Go Again, by Whitesnake (Repeat of sol 18 drive objective.)
- Sol 20: I Like Dirt, by Red Hot Chili Peppers; The Pioneers of Mars, by Landa/Linsley (MI/MB and drive.)
- Sol 21: Send Me On My Way, by Rusted Root; Desert Drive, by Tangerine Dream (Drive back to El Capitan.)
- Sol 22: Invisible Touch, by Genesis (MI-MB placement.)
- Sol 23: Spinning Wheel, by Blood, Sweat, and Tears (Right front trenching wheel.)
- Sol 24: Trench Town Rock, by Bob Marley (Make use of the trench.)
- Sol 25: Fascination, by Human League (Regarding the img return from the trench.)
- Sol 26: Body Movin', by the Beastie Boys (Every rover part exercised.)
- Sol 27: Touch and Go, by Emerson, Lake and Powell (Touch and go.)
- Sol 28: I am a Rock, by Simon and Garfunkel (El Capitan target assessment.)
- Sol 29: Riders on the Storm, by the Doors (Heavy weather at DSS-63 and DSS-14.)
- Sol 30: Rock 'n Me, by Steve Miller Band (1st RAT on opportunity.)
- Sol 31: Rock around the Clock, by Bill Haley and His Comets (APXS/MB.)
- Sol 32: Let It Be, by the Beatles (Long MB integration -- no IDD or mobility.)
- Sol 33: Blueberry Hill by Fats Domino, in honor of the hill in front of the rover.
- Sol 34: Dig In by Lenny Kravitz.
- Sol 35: I Can See Clearly Now by Jimmy Cliff.
- Sol 36: Rock Steady by Sting.
- Sol 37: Let's Go by the Cars.
- Sol 38: Have You Ever Seen the Rain? by Creedence Clearwater Revival in honor of the confirmation that liquid water once flowed through the rocks at Meridiani Planum.
- Sol 39: Bad Moon Rising" by Creedence Clearwater Revival in honor of the eclipse caused by the Martian moon Deimos.
- Sol 41: On the Road Again by Willie Nelson.
- Sol 43: "You Can Look (But You Better Not Touch)" by Bruce Springsteen in recognition of the fact that the rock abrasion tool grind did not touch the surface of its rock target on sol 42.
- Sol 44: "Try (Just a Little Bit Harder)" by Janis Joplin for the rock abrasion tool's second attempt at "Mojo 2," and "X-ray Eyes" by Kiss for the alpha particle X-ray spectrometer.

Sol 45: "Eclipse" by Pink Floyd in recognition of the transit of the martian moon, Phobos. A second song, "Meet Me Halfway" by Kenny Loggins, was played because Opportunity is halfway through its primary 90-sol surface mission.

Sol 46: The wakeup songs were "Berry Nice News" by Raffi and "Huckling the Berries" by Country Cooking in honor of researching the mysterious "blueberries" with the instruments on the robotic arm.

Sol 47: "No Particular Place to Go" by Chuck Berry in recognition of the stay at "Berry Bowl."

Sol 48: Jaws: MainTitle and Fist Victim by John Williams.

Sol 50: The Dentist by Bill Cosby, in honor of the toothy targets in "Shark's Cage."

Sol 51: Song of the South by Alabama.

Sol 53: Ice Cream Man by John Brim woke Opportunity this sol to remind it of the possible sweet treats that await at targets referred to as "Chocolate Chip" and "Coconut" in the neighborhood dubbed "Mudpie."

Sol 54: I Feel The Earth Move" by Carole King.

Sol 56: Fly Like an Eagle by the Steve Miller Band.

Sol 57: "If You Don't Get it the First Time, Back Up and Try it Again" by the JBs and Fred Wesley.

Sol 58: "Come on Home" by Lambert, Hendricks and Ross beckoned Opportunity back toward its landing site crater to an area of bright material.

Sol 59: "59th Street Bridge Song (Feeling Groovy)" by Simon and Garfunkel.

Sol 60: "The Circle of Life" by Elton John in honor of the Lion King panorama.

Sol 64: "Stand" by REM.

Sol 65: "Back in the Saddle" by Aerosmith.

Sol 66: "Bounce" by Bon Jovi. Opportunity's rock abrasion tool ground into "Bounce" for just over two hours.

Sol 67: "Changes" by David Bowie.

Sol 68: "Got to Go Back" by Van Morrison.

Sol 69: "Little Maggie" by Tom Adams, chosen for the soil target named "Maggie."

Sol 70: "Truckin" by The Greatful Dead.

Sol 72: "The Wanderer" by Dion and the Belmonts.

Sol 73: "Let the Good Times Roll" by B.B. King - a nod to Spirit's successful primary mission of 91 sols and a call for more good times during the coming sols.

Sol 79: "Teenage Lobotomy" by Ramones. Opportunity began operating with new flight software.

Sol 82: "I Would Walk 500 Miles," by Less Than Jake (originally by the Proclaimers).

Sol 85: "Take Me Out to the Ball Game!" by Jack Norworth in honor of all the baseball-related target names chosen this sol.

Sol 101-102: "Morning has Broken" by Cat Stevens; "Hallelujah Chorus" from George Frederic Handel's Messiah; and "Dazed and Confused" by Led Zeppelin.

SOURCES

Ezell, Edward Clinton and Ezell, Linda Neuman, "The Partnership: A History of the Apollo-Soyuz Test Project", 1978, SP-4209.

Mars Pathfinder Sojourner Rover Wake-up Song

list:http://mpfwww.jpl.nasa.gov/MPF/rover/roversongs.html

JSC Space Shuttle Wakeup Calls Website: http://spaceflight.nasa.gov/gallery/index.html MCC Status Reports

The Mission Transcript Collection: U.S. Human Spaceflight Missions from Mercury Redstone 3 to Apollo 17 (SP-2000-4602, 2001).

Skylab and Space Shuttle Air-to-Ground Transcripts and PAO Commentary

NASA Headquarters Historical Reference Collection

NASA Audio Highlights Tapes

JSC Audio Control Room

NASA Johnson Space Center Video Repository

Philip Chien, author of "Columbia - Final Voyage; The Last Flight of NASA's First Space Shuttle". http://www.sts107.info

(Philip Chien's contributions to the Chronology are italicized and followed by "PC".)